



Monticello Long-Term Surveillance and Maintenance Administrative Manual



U.S. Department
of Energy

Office of Legacy Management

**Monticello
Long-Term Surveillance and Maintenance
Administrative Manual**

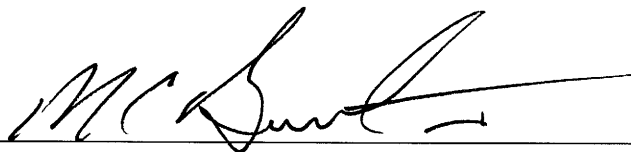
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Monticello Long-Term Surveillance and Maintenance Administrative Manual, Rev. 1

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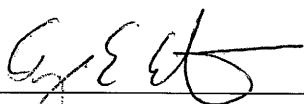


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Glossary

The terms defined below are applicable to this manual and the associated operating procedures (Volumes I through IV).

Administrative Record—A file, available for public inspection, that contains documents that form the basis of a response action. The administrative records for the Monticello Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) sites are located at the U.S. Department of Energy (DOE) Grand Junction, Colorado. A duplicate copy is located in the Information Repository.

Annual inspection—A review of the work and documentation conducted by the Monticello Long-Term Surveillance and Maintenance (LTSM) Representative combined with a visit to the site to determine protectiveness of the remedy. One or more persons knowledgeable with the site conduct the annual inspection.

Asbestos—Material that is harmful to human health or the environment and that is specifically defined and regulated under the Toxic Substances Control Act.

Biological Technical Assistance Group—An advisory group consisting of representatives from the U.S. Fish and Wildlife Service, the U.S. Environmental Protection Agency (EPA), the Utah Department of Environmental Quality, and DOE. This group evaluates and makes technical recommendations concerning the Monticello ecosystem.

Carrier Operators—Drivers of vehicles that transport radiologically contaminated materials; carrier operators may include the Monticello LTSM Representative, city of Monticello or Utah Department of Transportation (UDOT) workers, or common carriers.

CERCLA Five-Year Report—The results of a review conducted every 5 years are summarized in this report. The report states whether the remedy is protective of health and the environment, documents any deficiencies found, and recommends specific actions to ensure that the remedy will continue to be protective.

CERCLA Hazardous Substance—Material that is harmful to human health or the environment and that is specifically defined and regulated under CERCLA.

Certified Shipper—A person who has received DOE-approved training to ship radioactive or hazardous material.

Chief Inspector—Lead inspector of the LTSM inspection team, responsible for writing the annual inspection report; staff member of the LTSM Program (other than the on-site Monticello LTSM Representative in Monticello).

Controlled Area—Any area to which access is managed in order to protect individuals from inadvertent exposure to radiation and/or radiologically contaminated materials.

Controlled Distribution—Any document for which distribution and status are to be kept current by the issuer to ensure that authorized holders and users of those documents have available the most up-to-date version.

Contractor Environmental Services Laboratory—Grand Junction, Colorado, based research facility that provides the science and technology foundation for monitoring and evaluating long-term performance of surface and subsurface remedies.

Contractor LTSM Project Manager—Grand Junction, Colorado, -based DOE-contractor employee responsible for administering the Monticello LTSM project.

Delta Scintillometer—The ELB00018B delta-gamma scintillometer. The instrument measures soil Ra-226 concentrations in units of counts per second which may be converted to picocuries per gram (pCi/g).

Difficult to Remove Material—Radiologically contaminated material with a Ra-226 concentration greater than 130 pCi/g that cannot be easily removed using hand tools and having a volume greater than one cubic yard.

DOE Monticello Project Manager—Grand Junction, Colorado, based DOE employee with overall responsibility for managing the Monticello project.

DOT Radioactive Material—Radioactive material that meets the DOT definition of radioactive material, that is, any material having a total activity exceeding 70 becquerel/g. Total activity is the sum of all activities of the radionuclides present in the material.

Easily Removed Material—Radiologically contaminated material with a Ra-226 concentration greater than 130 picocuries per gram (pCi/g) that can be removed with a shovel or similar hand-operated tool and having a volume less than or equal to 1 cubic yard.

EPA Standard—The EPA “Radium in Soil Standard” found in 40 CFR 192 states that the Ra-226 concentration in soil shall not exceed 5 pCi/g above background in the first 15 centimeters (cm) of soil, averaged over 100 square meters (m^2), and shall not exceed 15 pCi/g above background in any subsequent 15-cm layer averaged for all depths over 100 m^2 . As a conservative approach, only the 5 pCi/g surface standard will be applied during LTSM activities. Normal background in the Monticello area is 1.0 pCi/g, making the standard 6.0 pCi/g.

Field Office—The building location in Monticello, Utah, of the Information Repository and the office for the Monticello LTSM Representative. The address of this office is 7031 South Highway 191, Monticello, Utah 84535.

Field Recognition Criteria—Anomalous physical conditions that would lead an inspector to believe that material has been released that may be harmful to human health or the environment. These physical conditions may be observed via sensory perceptions (e.g., sight, odor) or with field screening equipment such as a photo ionization detector.

Five-Year Review Team—A team consisting of at least two members who conduct the CERCLA Five-Year Review and write the CERCLA Five-Year Review report. The Contractor LTSM Project Manager selects the team with concurrence of the DOE LTSM Project Manager.

Gamma Scintillometer—An Eberline Model E-600 ratemeter with an external, crutch-mounted detector consisting of a 1.5-inch-thick by 1.5-inch-diameter sodium iodide crystal. This instrument reads in counts per second that may be converted to microrentgen per hour (μR/hr).

Government Owned Piñon/Juniper Properties—These properties are identified as MP-00391-VL, Phase III; MP-01077-VL, Phase II; and MP-01041-VL. These properties are owned by the City of Monticello.

Habitable Structure—A structure intended for human habitation.

Hazardous Waste—Waste material that is harmful to human health or the environment and that is specifically defined and regulated under the Resource Conservation and Recovery Act.

Hazardous Substances—For purposes of this document, the term “hazardous substances” includes CERCLA hazardous substances present in concentrations greater than EPA’s risk-based clean-up concentrations, hazardous waste, polychlorinated biphenyls, and asbestos.

Inactive Wells—Operable Unit (OU) III monitoring wells that are not monitored for water level measurement and/or sampled for analytical purposes.

Information Repository—A collection of documents describing the remediation for OUs I, II, and III, and the Vicinity Properties as well as those documents generated as a result of long-term surveillance and maintenance. The collection is located at the Monticello Field Office and maintained for review by the public, EPA, and the State of Utah.

Inspection—Review and observation by a formally constituted team for the purpose of oversight, mobilized either at regular intervals or in response to specific concerns.

Institutional Controls—Administrative procedures that are implemented to ensure that a remedy is protective of human health and the environment. For example, a restriction on the use of ground water is an institutional control.

Leachate Collection and Removal System (LCRS)—An engineered system designed to collect and transfer water draining from the repository or Pond 4.

Leak Detection System (LDS)—Sumps designed to detect and collect water that may have leaked through the primary liner of the repository or the secondary liner of Pond 4.

Low Specific Activity (LSA)—LSA material is defined by the DOT to include several distinct categories. For the purposes of this procedure the DOT definition of LSA-1 [49 CFR 173.403, (I) and (iv)] is used. LSA definition (I) is: “Ores containing only naturally occurring radionuclides (e.g., uranium, thorium) and uranium or thorium concentrates of such ores.” LSA definition (iv) is “Mill tailings, contaminated earth, concrete, rubble, other debris and activated material in

which the Class 7 (radioactive material) is essentially uniformly distributed and the average specific activity does not exceed 10^{-6} A2/g.” The A2 value is obtained from 49 CFR 173.435.

LTSM Record Collection—A set of programmatic and site-specific records documenting development and implementation of the LTSM Program. The collection is located at the DOE Grand Junction, Colorado.

LTSM Record Custodian—The person responsible for obtaining, controlling, and storing the LTSM record collection.

LTSM Working File Index/Plan—A continually revised document that defines project records, file organization, records custodians, active file locations, file transfer instructions, bar coding instruction, and other project-specific records guidance necessary to effectively manage project records. Revisions to this document are controlled.

Major Excavation—Excavations that require the use of heavy motorized equipment to excavate soil beneath or adjacent to city streets, utilities, or Highways 191 or 666 rights-of-way. For example, replacing or repairing a buried utility line, installing a culvert, replacing road base beneath a paved surface, or replacing fill material comprising an embankment would constitute a major excavation.

Minor Excavation—Excavations that can be made with hand tools or hand-operated mechanical tools (i.e., post-hole augers).

Mixed Waste—Waste material that is regulated under the Resource Conservation and Recovery Act as hazardous waste and that also meets the definition of radiologically contaminated material.

Monticello LTSM Representative—Monticello, Utah-based contractor employee residing in the Monticello area, and on call 24 hours a day, 7 days a week. A backup person is available to perform the duties required of the representative when necessary.

Natural Attenuation—Hydrological and geochemical process identified in the OU III ground water system that are expected to restore water quality to remediation goals.

Observations—Data recorded in a formal manner suitable for communication, interpretation, or processing.

Permeable Reactive Barrier—An engineered subsurface zone of chemically reactive material that stabilizes or degrades dissolved contaminants during flow through of ground water. The Monticello permeable reactive barrier contains zero-valent iron as the reactive medium to treat the primary ground water contaminants arsenic, molybdenum, selenium, uranium, and vanadium.

Photographic Material—35 mm negatives; self-developing film shall not be used for record material.

Planned Excavation—Excavations that are part of the annual budget and planning process for the city of Monticello and UDOT; excavations that are included in the city’s Street Improvement Master Plan or in UDOT’s Statewide Transportation Improvement Plan or Spot Improvement Plan.

Polychlorinated biphenyl (PCB)—Material that is harmful to human health or the environment and that is specifically defined and regulated under the Toxic Substances Control Act.

Privately Owned Piñon/Juniper Property—This property is identified as MS-00176-VL.

Project File Number—A project- and site-specific alphanumeric code (e.g., LMNT 1.1) used to identify, organize, control, disposition, and manage project records. The number consists of L (for LTSM Program) plus a site acronym (MNT for Monticello) plus a unique numeral (e.g., LMNT 1.1.1).

Protectiveness Statement—A statement in the CERCLA Five-Year Review report that documents whether a remedy is or is not protective of human health and the environment.

Radiological As-built—Engineering drawings, located in the Monticello LTSM Representative’s office, that identify radiation levels at individual properties which were remediated in the Monticello Vicinity Properties and the Monticello Mill Tailings Site Remedial Action Programs. Radiological as-built drawings are also part of the property completion reports.

Radiological Control Manager—The person, located at the GJO, who leads and is responsible for the Radiological Protection Program; he/she must be qualified in accordance with the applicable *Radiation Protection Program Plan*.

Radiologically Contaminated Materials—Residual radioactive material resulting from DOE-related uranium and vanadium ore processing that contains Ra-226 concentrations exceeding background by more than 5 pCi/g in the surficial 15 cm of soil averaged over 100 m², or more than 15 pCi/g in successively deeper 15-cm layers averaged over 100 m².

Radioactive Material Area—An area or structure where radiologically contaminated material in excess of 130 pCi/g Ra-226 is used, handled, or stored.

Radiological Survey—To delineate and document the surface area and radionuclide activity in counts per second (cps) or microrentgen per hour (μR/hr). The vertical extent of contamination and radionuclide concentrations in pCi/g may also be determined.

Record—Information or data on a specific subject collected and preserved in writing or other permanent form that has been verified and authenticated as complete and correct. Records may include photographs, photograph negatives, drawings, forms, reports, and record books.

Record Book—For the purposes of this procedure, record books will refer to the field notebooks kept by the Monticello LTSM Representative for each of the supplemental standards properties and the TSF.

Reportable Quantity—Quantity of material defined in Table 1, Appendix A, of 49 CFR 172.101 and referenced under 40 CFR 302.4, that if released must be reported to the EPA.

Repository Cover—A multilayered earthen and geomembrane barrier overlying the mill tailings. The cover is designed to prevent radon emission and create a barrier for surface water infiltration into the repository.

Soil and Sediment Properties—These privately owned properties adjacent to Montezuma Creek have soil and sediment contamination remaining on site and are identified as MP-00951-VL, MP-00990-CS, MP-01084-VL, MG-01026-VL, MG-01027-VL, MG-01029-VL, MG-01030-VL, and MG-01033-VL.

Spill—Any accidental release of petroleum products, hazardous substances, or radiologically contaminated material from packaging, containments, or transport vehicles.

Surveillance—The act of monitoring or observing to determine whether an item or activity conforms to specified requirements; routine observations that do not require the involvement of formal inspection teams.

Supplemental Standards Properties—Property where radioactive contamination was left in place in compliance with 40 CFR Part 192, *Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings*. These properties include the City of Monticello streets and utility corridors, Highways 191 and 666 rights-of-way, privately owned piñon/juniper property, government owned piñon/juniper properties, and the soil and sediment properties.

Suspect Hazardous Substance—Any material that exhibits field recognition criteria that would indicate the material is potentially harmful to human health or the environment. Because sampling and analysis has not been completed, the material is “suspected” to be a hazardous substance.

Technical Review—A formally documented review of technical material performed by individuals independent of those directly responsible for the work but who may be members of the organization that performed the work. A Technical Reviewer shall have expertise at least equal to that of the individual(s) who prepared the material under review.

Transportation Incidents or Emergencies—Any spill, release, accident, medical situation, or potential situation that may occur while loading, unloading, or inspecting a vehicle for transport; any spill, release, accident, medical situation, or potential situation that may occur while transporting materials in a vehicle on public highways.

Unplanned Excavation—Excavations that are not planned but are necessitated by an emergency situation (e.g., a utility line break) or occur as a result of a natural event (e.g., a flood, storm, or subsidence event).

Well abandonment—The process of removing or perforating the casing of a water well followed by grout placement. Well abandonment will conform to the substantive requirements of the Utah Well Drilling Standards.

Acronyms

The acronyms listed below are applicable to this manual and the associated operating procedures (Volumes I through IV).

AEC	Atomic Energy Commission
ARAR	applicable or relevant and appropriate requirements
bq	becquerel
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cm	centimeter(s)
CWA	Clean Water Act
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
dpm	disintegrations per minute
EA	environmental assessment
EPA	U.S. Environmental Protection Agency
ESD	Explanation of Significant Difference
FFA	Federal Facilities Agreement
ft	feet
gpad	gallons per acre per day
gal/min	gallon per minute
HASP	Health and Safety Plan
HDPE	high density polyethylene
HQ	Headquarters
ID	Idaho Operations Office
IRA	interim remedial action
JSA	Job Safety Analysis
LCRS	Leachate Collection and Removal System
LDS	Leak Detection System
LTSM	Long-Term Surveillance and Maintenance
m ²	square meter(s)
mm	millimeter(s)
MMTS	Monticello Mill Tailings Site
MOU	Memorandum of Understanding
MVP	Monticello Vicinity Properties
NORM	Naturally Occurring Radioactive Materials
NPL	National Priorities List
O&M	Operation and Maintenance
OJT	on-the-job (training)
OU	Operable Unit
PCB	polychlorinated biphenyl
PID	photo ionization detector
P/J	piñon/juniper
PPE	personal protective equipment
ppm	parts per million
PRP	potentially responsible party

pCi/g	picocuries per gram
QAPjP	Quality Assurance Project Plan
QAPP	Quality Assurance Program Plan
RCRA	Resource Conservation and Recovery Act
RCT	Radiological Control Technician
RI/FS	Remedial Investigation/Feasibility Study
ROD	record of decision
RPPP	Radiation Protection Program Plan
RW II	Radiological Worker II (Training)
SARA	Superfund Amendments and Reauthorization Act
SCADA	Supervisory, Control, and Data Acquisition
TAC	Technical Assistance Contract
TBC	to be considered
TSF	Temporary Storage Facility
UAC	Utah Administrative Code
UDEQ	Utah Department of Environmental Quality
UDOT	Utah Department of Transportation
UMTRCA	Uranium Mill Tailings Radiation Control Act
μR/h	microroentgens per hour

Executive Summary

The Monticello Mill Tailings Site (MMTS) and Monticello Vicinity Properties (MVP) have been remediated by the U.S. Department of Energy (DOE) Grand Junction Office (GJO) in accordance with the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. In October of 2001, long-term surveillance and maintenance (LTSM) activities were initiated because contamination remains in the repository, in the soil at other locations where supplemental standards have been applied, and in ground and surface water. As part of the CERCLA process, DOE will continue to monitor the sites, with oversight provided by the U.S. Environmental Protection Agency (EPA) Region VIII and the Utah Department of Environmental Quality (UDEQ), to ensure the following:

- Compliance with applicable or relevant and appropriate regulations (ARARs),
- Remedial actions taken remain protective of human health and the environment,
- Institutional controls continued to be implemented and enforced, and
- Information and data necessary for preparation of the annual reports and CERCLA Five-Year Review report is collected.

This manual is the umbrella document that provides a summary of the LTSM activities that will be conducted at Monticello, Utah. Detailed procedures that implement these activities are provided in four volumes of operating procedures. Collectively, the LTSM Administrative Manual and the four volumes of operating procedures, which are identified below, comprise the long-term surveillance plan for the Monticello CERCLA sites.

Volume I is the *Long-Term Surveillance and Maintenance Operating Procedures for the Monticello Mill Tailings Site Repository and Millsite* (DOE 2001a). Detailed procedures are provided in Volume I for conducting LTSM activities associated with Monticello Repository, Pond 4, and the former Monticello Millsite.

Volume II, the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b), contains procedures for conducting LTSM activities at locations where contamination has been left in place at levels which do not allow unlimited and unrestricted exposure.

Volume III, the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Surface and Ground Water* (DOE 2005), addresses the operating procedures for LTSM activities associated with surface and ground water, performance evaluation of the surface and ground water remedy of monitored natural attenuation, and the permeable reactive barrier. The permeable reactive barrier is a treatability study that is jointly funded by DOE and EPA.

Volume IV, the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews* (DOE 2001c), identifies how annual inspections will be conducted and provides procedures for conducting the CERCLA Five-Year Review and writing the associated report. CERCLA Five-Year Reviews are required because contamination remains at the MMTS and MVP above levels that allow for unlimited and unrestricted exposure. This volume incorporates the most recent EPA guidance for conducting

CERLA Five-Year Reviews. Activities are currently being undertaken as part of the interim remedial action for Monticello Surface and Ground Water project that provide protection for human health and the environment. Institutional controls have been put in place prohibiting the use of contaminated alluvial ground water. A treatability study, in which a Permeable Reactive Treatment Wall that removes contaminants from the ground water, has also been implemented. Ground and surface water monitoring are being conducted to better understand the effects of millsite remediation on water quality.

The next five-year review is due in June 2007. Subsequent five-year reviews are triggered 5 years from the previous submittal date.

1.0 Introduction

This Long-Term Surveillance and Maintenance (LTSM) Administrative Manual is a compendium of plans, procedures, and documents intended to implement the overall LTSM requirements associated with the Monticello Mill Tailings Site (MMTS) and Monticello Vicinity Properties (MVP) site. This administrative manual discusses the LTSM Operating Procedures and cites the more specific references that define the LTSM tasks for post-closure care at the various Monticello Millsite related remedial actions.

The purpose of this LTSM Administrative Manual is to provide a general overview of the activities required to ensure long-term protectiveness or effectiveness of the remedial actions. Administrative procedures that are common to all aspects of the LTSM Program are also included in this manual. LTSM Operating Procedures Volumes I, II, III, and IV identify specific procedures that personnel shall adhere to in order to implement the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. §9601 *et seq.*) long term monitoring requirements. LTSM Operating Procedures Volumes I, II, III, and IV also contain detailed plans describing how the U.S. Department of Energy (DOE) will implement its surveillance and monitoring activities to ensure the remedial actions taken at the Monticello National Priorities List (NPL) sites remain protective of human health and the environment. A chart showing the various LTSM related documents and the document relationships is included as [Figure 1–1](#).

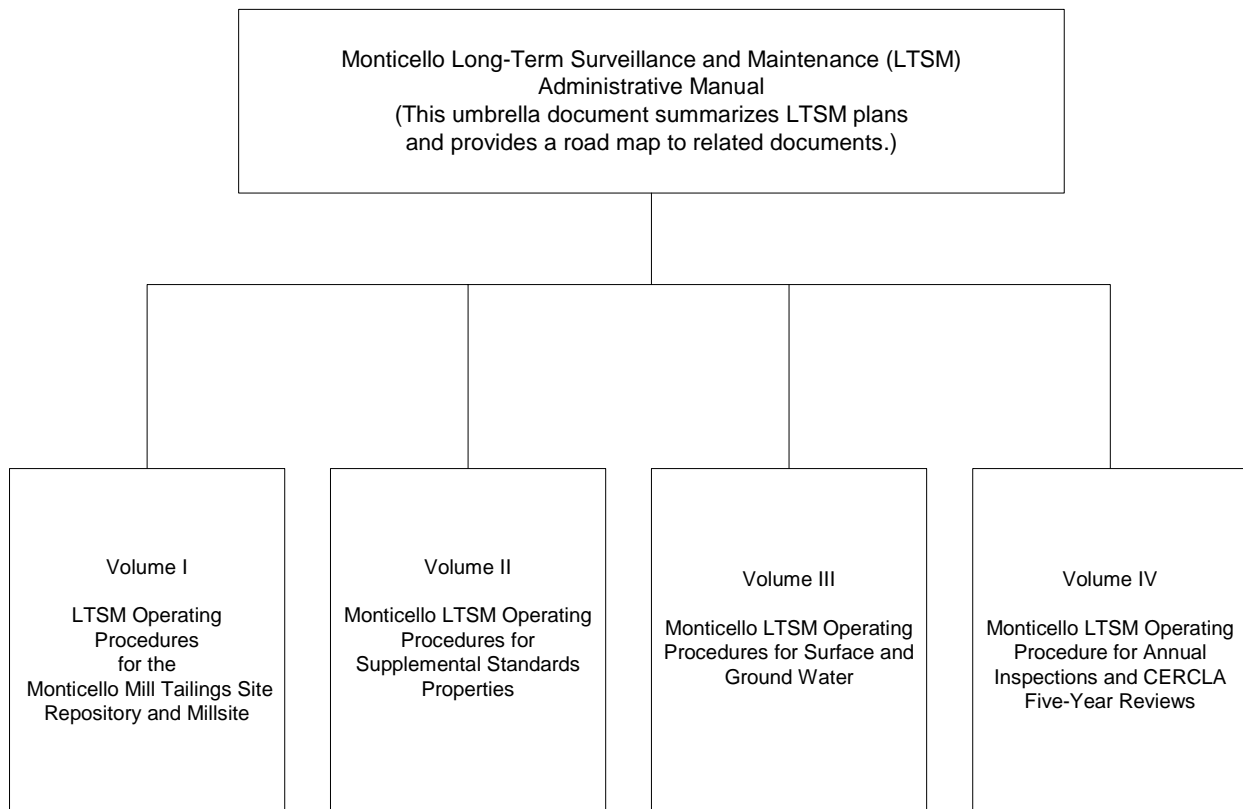


Figure 1–1. Monticello LTSM Plan Configuration

References are made to various DOE and contractor personnel in this manual and the LTSM Operating Procedures. [Table 1–1](#) contains the names of the individuals currently fulfilling these positions.

Table 1–1. Personnel Identification^a

Title	Individual	Organization	Assigned Location
Land and Site Management Director (LM-50) (Acting)	Ray Plienness	DOE	Grand Junction, Colorado
Monticello Project Manager	Art Kleinrath	DOE	Grand Junction, Colorado
Site Management Manager	Michael Butherus	Contractor	Grand Junction, Colorado
Contractor LM Program Manager	Clay Carpenter	Contractor	Grand Junction, Colorado
Contractor LTSM Project Manager	Tom Kirkpatrick	Contractor	Grand Junction, Colorado
Environmental Sciences Laboratory Manager	Stan Morrison	Contractor	Grand Junction, Colorado
LTSM Records Coordinator	Dianna Roberts	Contractor	Grand Junction, Colorado
Monticello LTSM Representative (Lead)	Joe Slade	Contractor	Monticello, Utah
Site Safety Supervisor	Joe Slade	Contractor	Monticello, Utah
Monticello LTSM Representative	Todd Moon	Contractor	Monticello, Utah
Radiological Control Manager	Michael Hurshman	Contractor	Grand Junction, Colorado
Health and Safety Manager	Michael Hurshman	Contractor	Grand Junction, Colorado
QA Manager	Donna Riddle	Contractor	Grand Junction, Colorado

^aAs of June 22, 2005.

Throughout the manual, various words are used to describe actions. The following words have the following meanings:

- “Shall” indicates a requirement, as do the synonyms “will” and “must.”
- “Should” indicates a recommendation.
- “May” indicates permission and is neither a requirement nor a recommendation.

2.0 Scope

The scope of this LTSM Administrative Manual is limited to those activities that must be conducted to ensure continued protection of human health and the environment; to ensure that remedies selected for the MMTS and MVP remain effective; and to support transfer of information to stakeholders, including the public, the U.S. Environmental Protection Agency (EPA), and the Utah Department of Environmental Quality (UDEQ). LTSM activities are applicable to the on-site Repository (permanent disposal cell), its leak detection system (LDS) and leachate collection and removal system (LCRS) (which includes Pond 4), and the former millsite. LTSM activities are also applicable to supplemental standards properties at which contamination was left in place. Supplemental standards properties include Monticello city streets and utilities, private property, Utah Department of Transportation (UDOT) rights-of-way, and government owned piñon/juniper (P/J) property. LTSM activities are also applicable to the Monticello Surface and Ground Water project. Monitored natural attenuation with institutional controls is the selected remedy for Monticello surface and ground water. Contaminants of concern are anticipated to meet remediation goals by 2045.

LTSM activities described in this manual and the associated operating procedures (Volumes I through IV) are designed to lead to acceptable CERCLA Five-Year Reviews. Adherence to these plans and procedures will result in collection of data documenting the long-term effectiveness of remedial actions taken.

The overall objective of LTSM is to manage the repository and any contamination left in place at the MMTS, MVP, and Surface and Ground Water Project. The LTSM program is being implemented to ensure that the remedies in place remain protective of human health and the environment. These documents develop plans and procedures for implementing LTSM, maintaining site records, and disseminating information to the stakeholders and the public. Adherence to the operating procedures in Volumes I through IV will provide data and information necessary for completing the annual inspection reports and the statutorily mandated CERCLA Five-Year Review and making a determination whether the remedy continues to be protective of human health and the environment.

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3.0 Background

The Monticello Mill and an associated ore-buying station operated from 1940 to 1946 under private ownership and from 1948 to 1960 under the U.S. Atomic Energy Commission (AEC). Ore was processed to recover uranium and vanadium at Monticello from 1942 to 1944, in 1945 and 1946, and again from 1948 to 1960. The ore-buying station opened in 1940 and closed in 1962. Between 1961 and 1965, various measures were taken to dismantle the mill, dispose of equipment and scrap, bury contaminated materials, regrade the tailings piles, cover the tailings and contaminated materials with soil, and revegetate the site. Part of the Millsite (about 10 acres), including a few intact buildings and part of the former Millsite administrative ore-buying station was transferred to the Bureau of Land Management in 1962. The remainder, including the tailing piles (approximately 68 acres), remained in the custody of the AEC and its successor agencies, first the U.S. Energy Research and Development Administration and later the DOE.

Throughout the operating period, mill tailings from the Monticello millsite were used in the City of Monticello for construction. These tailings were used as fill for open lands; backfill around water, sewer, and electrical lines; sub-base for driveways, sidewalks, and concrete slabs; backfill against basement foundations; and as sand mix in concrete, plaster, and mortar. Contamination was also spread by wind and through erosion along Montezuma Creek.

Radiological surveys were conducted throughout the City of Monticello to identify the existence, nature, and magnitude of radiation exposure from mill tailings originating from the Monticello millsite. Initial surveys were performed in 1971 to identify properties in the vicinity of the millsite that were contaminated with uranium mill tailings.

In 1974 and 1975, mill foundations were demolished and buried and the area was regraded and revegetated. A fence was constructed around the millsite to limit access and control the spread of contamination by human use.

Radiological surveys of vicinity properties continued in 1980. These surveys, along with the initial surveys of 1971, resulted in the identification of 98 anomalous properties in the vicinity of the former millsite. In 1982, 16 more properties were surveyed at the request of property owners and were found to be contaminated. In 1983, 36 properties were added to the investigation. Eventually, 424 vicinity properties were determined to be contaminated from material originating from the Monticello millsite and were included for remediation.

In 1983, remedial activities for vicinity properties were separated from those of the millsite with the establishment of the MVP Project. The MVP site was listed on the NPL on June 10, 1986, and was remediated pursuant to a Record of Decision (ROD) dated November 29, 1989. The selected remedy for cleanup of the MVP site was excavation of tailings, ore, and related by-product material from vicinity properties; temporary storage on the Monticello millsite; and final disposal in the same repository described for materials from the Monticello millsite. Because mill tailings from the Monticello millsite were used for construction purposes, cleanup activities included demolition of sidewalks, patios, sheds, and other improvements. Affected properties were backfilled, graded, and reconstructed. Contaminated materials were temporarily placed on the millsite and ultimately disposed with contaminated millsite material. Remediation of the

MVP site was completed in 1999 and deletion from the NPL became effective February 28, 2000.

In 1989, the MMTS was placed on the NPL pursuant to CERCLA and the Superfund Amendments and Reauthorization Act (SARA) of 1986 (42 U.S.C. §9604 *et seq.*). As the owner and past operator of the site, DOE was identified as the potentially responsible party (PRP) under CERCLA. A Remedial Investigation/Feasibility Study - Environmental Assessment (RI/FS-EA) was conducted pursuant to CERCLA and the National Environmental Policy Act, and the ROD for Operable Units (OUs) I and II (DOE 1990) was signed in 1990. As the PRP, DOE was tasked with funding and performing the remedial actions necessary at the MMTS, as well as maintaining and monitoring the future performance of the remedy chosen to protect human health and the environment at the site.

Because of the complexity of the MMTS, DOE divided the remedial action work into three manageable components called “operable units.” These OUs are described below.

- **OU I, Monticello Millsite Tailings and Millsite Property**—This OU comprises the 110-acre millsite, tailings impoundment areas on the millsite, and storage areas on the millsite property for tailings-contaminated materials removed from the vicinity properties and peripheral properties. Construction of the on-site Repository (permanent disposal cell) and its leachate collection system is included in this OU. Components of the OU I cleanup remedy include relocating contaminated materials from the millsite to the disposal cell, revegetation after removal of the tailings, realignment of Montezuma Creek, and reestablishment of wetland areas. As stated in Title 40 Part 192 of the *Code of Federal Regulations* (40 CFR 192), “Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings,” control of the waste materials shall be accomplished with a Repository design that is effective for up to 1,000 years to the extent reasonably achievable, and in any case, for at least 200 years.
- **OU II, Peripheral Properties**—This OU consists of remediation of private and DOE-owned properties peripheral to the millsite that were contaminated by windblown or stream-deposited tailings. It also addresses contaminated soil and sediment transported downstream of the millsite and deposited in and adjacent to Montezuma Creek. Other components of the peripheral property cleanup remedy include revegetation after removal of the tailings and use of institutional controls where supplemental standards were applied, such as limitations on access or use.
- **OU III, Monticello Surface Water and Ground Water**—This OU consists of contaminated surface water and ground water at and downstream of the millsite. This OU was not part of the original NPL listing. When OU III was designated, it also encompassed contaminated soil and sediment deposited downstream of the millsite in and adjacent to Montezuma Creek. However, DOE decided, with the concurrence of EPA and UDEQ, to address the contaminated soil and sediment areas along Montezuma Creek under OU II. DOE decided in 1998, with the concurrence of EPA and UDEQ, that selection of a final remedy for OU III surface water and ground water was impractical at that time because of the changing conditions on the millsite. The decision was made to implement an interim remedial action that consists of restricting the use of contaminated ground water, in situ treatment of the

ground water through a permeable reactive barrier, and continued monitoring and characterization of the ground water. The interim remedial action was completed and a ROD for the Monticello Surface and Ground Water Project (OU III) was signed in June 2004. The selected remedy for OU III is monitored natural attenuation with institutional controls. Natural hydrological and geochemical processes identified in the OU III ground water system are expected to restore water quality to remediation goals by year 2045. Until that time, annual reports and CERCLA 5-year reviews will evaluate ground water and surface water restoration and the effectiveness of the institutional controls. In addition, as set forth in the ROD for OU III, if the selected remedy does not remain protective of human health and the environment, or if the monitoring results indicate that the remediation goals cannot be achieved in the allotted time (by year 2045), contingency remedies will be evaluated and will be implemented if determined necessary.

A related project, the MVP Remedial Action Project, was conducted simultaneously with the MMTS related remedial action efforts. The MVP ROD (DOE 1989) was signed in 1989. A total of 424 properties were ultimately remediated under the MVP Project. Contaminated materials remedied as part of the MVP Project were temporarily stockpiled at the Monticello Millsite and ultimately placed in the MMTS Repository. Deliveries of contaminated materials from off-site properties to the millsite ceased in June 1999 due to completion of the MVP remedial action.

Remediation of the millsite and placement of the tailings in the on-site Repository began in June 1997. Placement of contaminated materials in the Repository was completed in September 1999. Placement of the cover system of the Repository was completed in February 2000. The Repository's LCRS, which was in operation with the onset of tailings placement, is currently removing contaminated water draining from the Repository. The contaminated water is stored in Pond 4, which is an evaporation pond designed to remain in operation until water ceases to drain from the Repository. Based on the engineering design, Pond 4 is expected to remain in service for 5 to 20 years depending on the transient water drainage from the tailings placed in the Repository. A map depicting the millsite, supplemental standards properties, Repository, and Pond 4 is provided in [Figure 3-1](#).

Contaminated materials placed in the Repository consist primarily of uranium mill tailings from the Millsite, vicinity properties, and peripheral properties. The primary contaminant of concern is radium-226. Radium-226 has a half-life of 1,622 years and produces radon gas. Decay products from radon may be inhaled and increase the risk of lung cancer in humans. Other materials disposed of in the Repository include milling byproduct materials, Millsite building and other debris, radiologically contaminated debris from vicinity and peripheral property remediation activities, and small quantities of asbestos and hazardous substances that were discovered during remediation of the respective areas. The total volume of material is approximately 2.54 million compacted-in-place cubic yards. This material will be managed in accordance with the operating procedures in Volume I of this LTSM.

Regulations codified in 40 CFR 192.21 allow contaminated material to be left in place in specific cases if attaining the usual cleanup standards will cause excessive risk of injury, excessive environmental harm, or unreasonably high costs compared with the health benefits to be gained. The site specific remediation standards, called supplemental standards, are applied to areas where contaminated material is left in place. Contaminated materials (primarily mill tailings containing

radium-226) were left in place at supplemental standards properties. These supplemental standards properties and the associated areas of contamination are identified in Volume II of this LTSM Administrative Manual. Contaminated material left in place at the supplemental standards properties will be managed in accordance with Volume II of this LTSM Administrative Manual. Lists of supplemental standards properties are provided in [Tables 3–1](#) and [3–2](#) and shown on Figure 3–1.

Table 3–1. MMTS Supplemental Standards Properties

MP–00391	MP–01041	MG–01026	MG–01030
MP–00951	MP–01077	MG–01027	MG–01033
MP–00990	MP–01084	MG–01029	

Table 3–2. MVP Supplemental Standards Properties

MS–00176
City of Monticello Street and Utility Rights of Ways
Highways 191 and 666 Rights Of Way within the City Limits

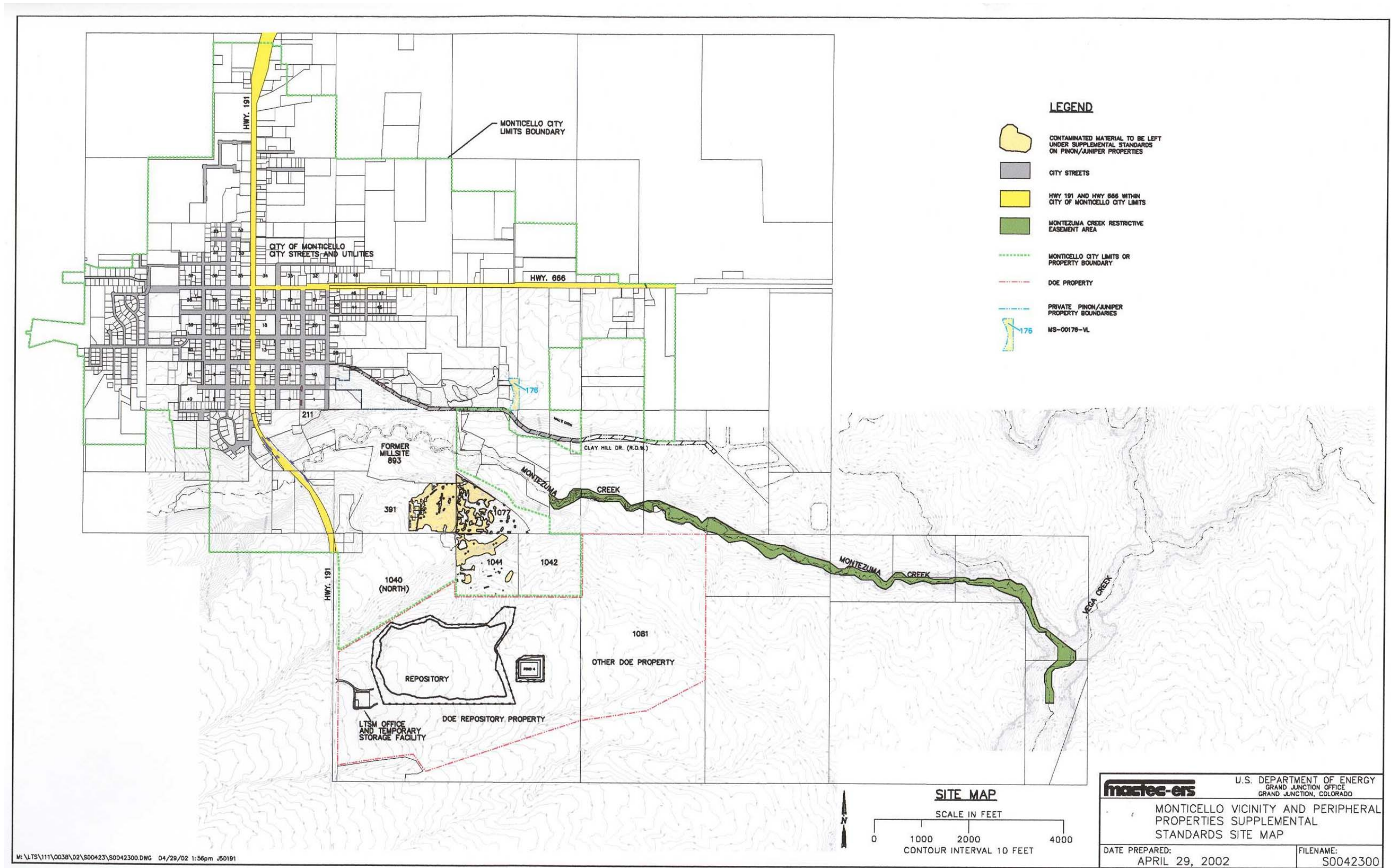


Figure 3-1. Monticello Vicinity and Peripheral Properties Supplemental Standards Site Map

4.0 Regulatory Basis

Upon meeting regulatory clean-up standards, the millsite, peripheral properties, and vicinity properties become eligible for delisting from the NPL. After delisting from the NPL, the CERCLA process requires periodic reviews, called CERCLA Five-Year Reviews, to ensure the remedy, or remedies, taken remain protective of human health and environment. The Repository site will remain a CERCLA site in perpetuity because of the buried waste as will all locations where contaminated material was left in place and the property was not released for unrestricted and unlimited use. Therefore, the legal and regulatory requirements for the Repository site and supplemental standards areas will continue under CERCLA authority.

The CERCLA evaluation process was used to determine applicable or relevant and appropriate requirements (ARARs) for the MMTS and MVP. Those requirements are listed in Appendix B of the *Monticello Mill Tailings Site Declaration for the Record of Decision and Record of Decision Summary* (DOE 1990) and the *Monticello Vicinity Properties Project Declaration for the Record of Decision and Record of Decision Summary* (DOE 1989). This section presents an evaluation of those ARARs that have a direct bearing on the long-term care of the Repository site once it has been closed. These ARARs provide the standards of control needed to ensure continued protection of human health and the environment. As a continued on-site CERCLA activity, only substantive requirements must be met; compliance with administrative requirements is not mandatory. Permits are not required for on-site actions at CERCLA sites [Title 40 CFR Part 300.400(e)].

The following discussion identifies long-term care ARARs and how each pertains to the Repository site:

- 40 CFR 192 is relevant and appropriate to the design of the Repository. Specifically, 40 CFR 192 requires that the Repository be designed to be effective for up to 1,000 years, to the extent reasonably achievable, and, in any case, for at least 200 years. The *Operable Unit I Millsite Remediation Design* meets this design objective. This LTSM Administrative Manual establishes LTSM criteria for the Repository cover and liner to ensure that the Repository longevity requirements (i.e., effectiveness of the design) are met. Consequently, cover integrity and leakage monitoring are the focus of the site inspections identified for the Repository and Pond 4 including the LCRS and LDS systems.
- 40 CFR 192 allows the application of supplemental standards when the remedial actions required to satisfy the cleanup standards for land would directly produce health and environmental harm that is excessive compared to the health and environmental benefits. Supplemental standards may also be applied when the estimated cost of remedial action to attain numeric standards is unreasonably high relative to the long-term benefits and the residual radioactive materials do not pose a clear present or future hazard. Supplemental standards were approved for properties described in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). Site inspections are conducted to ensure that contamination remains in place or if removed is managed properly. In addition, an evaluation of institutional controls (such as ground water and land use limitations) is included in site inspections for the supplemental standards properties.

- 40 CFR 192, along with the Clean Air Act, also defines the radon emission standard for the Repository. Radon emissions must not exceed an average release rate of 20 picocuries per square meter per second, or increase the annual average concentration of radon-222 in air at or above any location outside of the Repository site by more than 0.5 picocurie per liter. The Clean Air Act's National Emission Standards for Radon Emissions from DOE Facilities is applicable to the long-term performance of the Repository because the National Emission Standards for Hazardous Air Pollutants Subpart Q requirements must be met to control radiological contamination on DOE-owned facilities, including the Monticello Repository. The long-term performance of the Repository cover must meet the radon emission standard of 20 picocuries per square meter per second.
- 40 CFR 192 establishes ground water standards for remedial actions at inactive uranium processing sites. These standards are potentially relevant and appropriate for the remediation of the Monticello millsite because of the potential future use of the aquifer as a public or private drinking water supply. EPA issued guidance in OSWER Directive No. 9283.1-14 addressing the use of uranium standards when setting remediation goals for CERCLA sites that have uranium as a contaminant of concern. Ground Water Quality Protection Regulations and MCLs are applicable to OU III.
- The Clean Water Act (CWA) is applicable to remediation and restoration of wetland areas located in the MMTS. Under the CWA Section 404 disturbances or discharges of dredged or fill material to a wetland area must be avoided. If there are not practical alternatives and disturbances to a wetland area cannot be avoided, the discharge must be minimized and unavoidable impacts must be mitigated. Remediation plans in accordance with this avoid-minimize-mitigate sequence are established in the *Wetlands Master Plan* (DOE 1996). The plan identifies re-establishment of wetland areas and identifies success criteria. Successful establishment of wetland areas is being conducted under OU I, OU II, and OU III. Once wetlands are re-established, the only monitoring of wetland areas conducted under the LTSM Program will be to determine if damage caused by man is occurring in the wetland areas.
- Utah Ground Water Quality Protection Regulations are applicable to the Repository site because they establish post-closure ground water monitoring requirements. The Repository and Pond 4 must be operated in a manner to ensure that compliance with these ground water quality standards are met in the shallow ground water beneath the Repository site pursuant to Utah Administrative Code (UAC) R317-6. No ground water monitoring will be done unless contingency actions are implemented as described in the *Repository and Pond 4 Ground Water Contingency Plan-Final* (DOE 1998). Ground water quality protection standards established in 40 CFR 192 are integral to post-closure ground water compliance monitoring requirements.
- Utah Hazardous Waste Management Rules are applicable to the Repository site because hazardous waste was placed in the Repository. Therefore, the Repository must comply with all substantive hazardous waste disposal facility care requirements as specified in UAC R315-8. Leachate from the Repository is managed in Pond 4. Only characteristic hazardous waste has been placed into the Repository. Pond 4 is not presently considered a hazardous waste surface impoundment because the leachate is not derived from or mixed

with a listed hazardous waste. However, if in the future, the leachate in Pond 4 exhibits any of the characteristics of hazardous waste, Pond 4 will be considered a hazardous waste surface impoundment and must comply with all substantive hazardous waste disposal facility requirements as specified at UAC R315-8.

The design of the Repository is equivalent to the technical requirements for a Resource Conservation and Recovery Act (RCRA) Subtitle C hazardous-waste landfill; the design of Pond 4 is equivalent to the technical requirements for a hazardous-waste surface impoundment. Utah Hazardous Waste Management Rules define the parameters pertaining to monitoring of leakage at landfills and surface impoundments. Action leakage rates have been established pursuant to the Utah Hazardous Waste Management Rules. Landfill closure and post-closure care activities must also comply with these requirements. These surface impoundment closure and post-closure care activities must also be complied with if Pond 4 is determined to be a hazardous waste surface impoundment.

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5.0 Monticello Long-Term Surveillance and Maintenance Overview

This manual is an umbrella document that provides a summary of the LTSM tasks necessary to ensure that remedial action remains protective of public health and the environment and is functioning as designed. More specific details of the LTSM plans and specific procedures for implementing the plans are provided in operating procedures. These detailed operating procedures are located in Volumes I, II, III, and IV of this administrative manual (see Figure 1–1).

The four volumes of operating procedures are as follows:

- Volume I—*Long-Term Surveillance and Maintenance Operating Procedures for Monticello Mill Tailings Site Repository and Millsite* (DOE 2001a). LTSM procedures applicable to the repository and ancillary facilities and the former millsite are provided in this volume.
- Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). This volume describes the procedures used to ensure compliance with institutional controls and land use restrictions placed on properties where contamination is left in place. It also addresses LTSM activities associated with contaminated properties.
- Volume III—*Long-Term Surveillance and Maintenance Operating Procedures for Monticello Surface and Ground Water* (DOE 2005). This volume addresses LTSM activities that are related to MMTS OU III. It describes the procedures DOE will follow to monitor natural attenuation of contaminants of concern and to evaluate whether remediation goals will be attained by the year 2045. Implementation and enforcement of institutional controls is also addressed in this manual as well as the decommissioning of the permeable reactive barrier treatability study.
- Volume IV—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews* (DOE 2001c). This volume describes the annual inspections in detail and addresses the manner in which the ongoing LTSM activities provide the data and information necessary for the successful completion of the CERCLA Five-Year Review. The EPA guidance document entitled “*Comprehensive Five-Year Review Guidance*” (EPA 2001) is the basis for this volume.

5.1 Long-Term Surveillance and Maintenance Site Repository and Millsite

Volume I—*Long-Term Surveillance and Maintenance Operating Procedures for Monticello Mill Tailings Site Repository and Millsite* (DOE 2001a) addresses LTSM activities that are related to the Repository and Pond 4 (including the LCRS, LDS, telemetry systems, and the Repository cover) and the former millsite. Areas of the former millsite where supplemental standards have been applied are addressed in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). Procedures are provided for routine inspections, monitoring events, and contingency plans for corrective actions, when and if they are determined to be necessary.

5.1.1 Summary of Repository and Millsite Long-Term Surveillance and Maintenance Requirements

As described in Volume I—*Long-Term Surveillance and Maintenance Operating Procedures for Monticello Mill Tailings Site Repository and Millsite* (DOE 2001a) the LTSM requirements include:

- Surveillance of the Repository cover on a monthly basis for evidence of erosion, settlement, cover integrity, or vandalism.
- Inspection of the Repository after major storm events for evidence of erosion.
- Annual monitoring of the Repository settlement plates.
- Monitoring water levels in the LCRS, leak detection system, and Pond 4.
- Water quality testing of the Repository leachate on a quarterly basis.
- Inspection of Pond 4 liner system.
- Inspection of the former millsite on a monthly basis to ensure institutional controls remain in place.
- Inspection of the wetland areas of the millsite along Montezuma Creek to ensure that no man-made damage is occurring.
- Performance monitoring of the wetland areas of the millsite along Montezuma Creek for success criteria. The requirement to inspect for success criteria will cease once wetland restoration is deemed successful.
- Yearly inspections of the Repository and ancillary facilities by a formal team of inspectors.
- Completion of CERCLA Five-Year Reviews.

5.1.2 Summary of Repository and Millsite Contingency Requirements

The *Repository and Pond 4 Groundwater Contingency Plan-Final* (DOE 1998) addresses the contingency actions that DOE will take if the synthetic liners in Pond 4 and the Repository at the Monticello Millsite remediation site do not perform as designed. Overall performance will be monitored in the liner systems. The LDS sumps are the points of compliance in the respective systems.

When defined thresholds are exceeded, system failures identified, or a release to the environment is confirmed, the specified contingency actions, as outlined in the referenced contingency plan, will be implemented. Contingency actions that may be implemented include:

- Notification of EPA and the State of Utah of problems, occurrences, and mitigation measures that affect the LCRS or the LDS of either the Repository or Pond 4.

- Additional measurement of leakage quantity and quality.
- Evaluation of potential change in ground water quality resulting from either Repository or Pond 4 leakage.
- Installation of downgradient monitoring systems.
- Development of further corrective action plans.
- Inspections and necessary corrective actions to the Repository cover.
- Installation and monitoring of additional settlement plates.

5.2 Long-Term Surveillance and Maintenance Operating Procedures for Monticello Supplemental Standards Properties

Plans and procedures ensuring protection of human health and the environment and the continued effectiveness of institutional controls are discussed in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b).

DOE has constructed a TSF near the Monticello Repository to manage radiologically contaminated materials resulting from the implementation of this plan. Details of operation of the TSF are included in Volume I, Section 7.0. DOE will be responsible for the ultimate disposition of materials stored at the TSF and for the compliant closure of the TSF. The materials will be sent to the Grand Junction Disposal Cell (or other approved radioactive disposal site) annually or when the TSF reaches 75 percent of storage capacity.

Because contamination is known to remain at supplemental standards properties, DOE conducts radiological scanning to ensure that the contamination is not redistributed to clean areas through erosion or by human actions. DOE also monitors institutional controls that have been implemented to ensure the remedy remains protective of human health and the environment. Contingency plans were included in the supplemental standards applications, which were approved by EPA and UDEQ, for each supplemental standards area. These area specific plans are included in the appendices to Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b).

5.2.1 Summary of City Streets and Utilities Long-Term Surveillance and Maintenance Requirements

As part of the supplemental standards application for the Monticello city streets and utilities, a strategy for managing residual radioactive material left in place was developed. This strategy is defined in Volume II, Section 2.0 and Volume II, Appendix A. The LTSM management strategy includes:

- Implementing institutional controls. These controls include scanning all highway and city street excavations for radioactive material and removal of any radioactive material encountered that exceeds the standard of 5 picocuries per gram (pCi/g).

- Conducting routine surveillances and inspections.
- Implementing contingency actions if radiologically contaminated materials are encountered or disturbed. Radioactive material will be taken to the TSF and ultimately placed in the Grand Junction Disposal Cell near Whitewater, Colorado. Disposal may occur at another approved radioactive disposal site, but disposal at the Grand Junction Disposal Cell is the preferred option.
- Preparing reports for regulatory agencies.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

DOE has entered into a Cooperative Agreement with the City of Monticello (DOE 1999a) wherein the parties agreed on the future management of city streets and utilities. As one of the terms of this agreement, DOE provided the city of Monticello with a dump truck and front-end loader for excavating and transporting radiologically contaminated materials. With this equipment, the city will assist DOE in removing and transporting radiologically contaminated materials from the city and UDOT street rights-of-way, utility easements, and from private property to the TSF. Subsequent transportation of all radiologically contaminated materials shall occur in full compliance with federal and state transportation requirements.

Contingency action plans are defined for both planned and unplanned excavations; radiological surveys and site controls; transportation of radiologically contaminated materials; spill response; and operations associated with the temporary storage of the contaminated materials.

5.2.2 Summary of Government Owned Piñon and Juniper Properties Long-Term Surveillance and Maintenance Requirements

As part of the supplemental standards application for the government owned piñon/juniper (P/J) properties, a strategy for managing residual radioactive material left in place was developed. This strategy is defined in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). The LTSM management strategy includes:

- Placing restrictions on land use. These restrictions include prohibiting construction of structures suitable for human habitation, restrictions on the use of ground water for human consumption, and prohibiting overnight camping.
- Implementing and enforcing applicable institutional controls.
- Conducting routine surveillances and inspections.
- Implementing contingency actions if radiologically contaminated materials are encountered.
- Preparing reports for regulatory agencies.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

Contingency action plans are defined for discovery of eroded material; radiological surveys and site controls; transportation of radiologically contaminated materials; spill response; and operations associated with the temporary storage of the contaminated materials.

5.2.3 Summary of Privately Owned Piñon and Juniper Property Long-Term Surveillance and Maintenance Requirements

As part of the supplemental standards application for the privately owned P/J property (MS-00176), a strategy for managing residual radioactive material left in place was developed. This strategy is defined in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). The LTSM management strategy includes:

- Placing restrictions on land use.
- Implementing institutional controls (special zoning district).
- Conducting routine surveillances and inspections. Routine surveillances include radiological scanning of footprints of any future building excavations.
- Implementing contingency actions if radiologically contaminated materials are encountered.
- Preparing reports for regulatory agencies.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

If radiologically contaminated materials exceeding 40 CFR Part 192.12 standards are encountered within the excavated footprint of a habitable structure, within the excavated spoils pile adjacent to the footprint, or within materials that have eroded from MS-00176, DOE will take specific contingency actions.

Contingency action plans are identified for habitable structure construction; discovery of eroded material; radiological surveys and site controls; transportation of radiologically contaminated materials; spill response; and operations associated with the temporary storage of the contaminated materials.

5.2.4 Summary of Highways 191 and 666 Long-Term Surveillance and Maintenance Requirements

As part of the supplemental standards application for the Highways 191 and 666 rights-of-way, a strategy for managing residual radioactive material left in place was developed. This strategy is defined in Volume II, Section 2.0 and Volume II, Appendix B. The LTSM management strategy includes:

- Placing restrictions on land use.
- Implementing institutional controls.
- Conducting routine surveillances and inspections. Excavations conducted within the highway rights-of-way within the city limits will be radiologically scanned. At the option of the Utah Department of Transportation (UDOT), radiologically contaminated material will be either returned as fill to the excavation or transferred to the TSF for management by DOE.
- Implementing contingency actions if radiologically contaminated materials are encountered or disturbed.
- Preparing reports for regulatory agencies.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

DOE has entered into a Memorandum of Understanding (MOU) with UDOT (DOE 1999b) wherein the parties agreed on the future management of the Highways 191 and 666 rights-of-way within the Monticello city limits. If radiologically contaminated materials are encountered during construction activities or are disturbed as a result of natural events, DOE and UDOT will take specific contingency actions. Contingency action plans are defined for both planned and unplanned excavations; radiological surveys and site controls; transportation of radiologically contaminated materials; spill response; and operations associated with the temporary storage of the contaminated materials.

5.2.5 Summary of Montezuma Creek Soil and Sediment Properties Long-Term Surveillance and Maintenance Requirements

As part of the supplemental standards application for OU II soil and sediment area properties, a strategy for managing residual radioactive material left in place was developed. This strategy is included in Volume II, Section 3.0 and Volume II, Appendix D. The LTSM management strategy includes:

- Implementing and enforcing institutional controls in the form of restrictive easements on land use. The restrictive easement includes prohibiting the construction of structures suitable for human habitation, removal of soil from the easement area, and placing restrictions on the use of ground water for human consumption.
- Conducting routine surveillances and inspections.

- Implementing contingency actions if radiologically contaminated materials are removed from the property.
- Preparing reports for regulatory agencies.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

Contingency action plans are defined in Appendix D of Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b) for discovery of violation of restrictive easements. Contingency action plans are defined for habitable structure construction; discovery of eroded material; radiological surveys and site controls; transportation of radiologically contaminated materials; spill response; and operations associated with the temporary storage of the contaminated materials and/or use of the shallow alluvial ground water for purposes of human consumption.

5.2.6 Summary of Property MP-00211 Long-Term Surveillance and Maintenance Requirements

Uranium concentration exceeding the EPA Region III Risk-Based Concentration Table standard for residential use was identified in one location on MP-00211 Phase I. To prevent construction of a habitable structure in an area where uranium concentration in soil exceeds the residential-use standard, a strategy for managing uranium left in place was developed. This strategy is included in Volume II, Section 2.5.6—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). The LTSM management strategy includes:

- Implementing institutional controls (special zoning district).
- Conducting routine surveillances and inspections. Routine surveillances include uranium scanning of footprints of any future habitable structure.
- Implementing contingency actions if uranium contaminated materials are encountered.
- Keeping records.

Plan implementation includes a Monticello-based DOE representative to provide as-needed field support for any of the above listed activities.

If uranium contaminated materials exceeding EPA Region III Risk-Based Concentration Table standard for residential use are encountered within the immediate disturbed area at a habitable structure construction site, DOE will take specific contingency actions. Contingency actions include halting construction, removing contaminated material, and notifying the City of Monticello when DOE has determined that the uranium levels on the property are below the standard.

5.3 Long-Term Surveillance and Maintenance Operating Procedures for Monticello Surface and Ground Water

During review of the draft feasibility study report in the summer of 1997, DOE, EPA, and UDEQ mutually agreed that it was not possible at that time to definitively predict the effects that Millsite remediation would have on the ground-water and surface-water systems. A decision was made to conduct an interim remedial action (IRA) and revise the draft feasibility study after post-Millsite remediation conditions in ground water and surface water had stabilized. Data were collected during the IRA and a Remedial Investigation Addendum and a Focused Feasibility Study were completed. Ultimately, a ROD was completed for OU III in which monitored natural attenuation with institutional controls was chosen as the selected remedy.

5.3.1 Summary of Operable Unit III Long-Term Surveillance and Maintenance Requirements

The LTSM requirements are described in the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Surface and Ground Water* (Volume III). This document describes how the following requirements are implemented:

- Institutional controls
- Performance monitoring
- Annual data summary report
- Annual inspections
- CERCLA 5-year reviews
- Activities associated with the permeable reactive barrier
- Well abandonment

The use of contaminated water is prohibited through a *Ground-Water Management Policy for the Monticello Mill Tailings Site and Adjacent Areas* issued by the State Engineer's Office on May 21, 1999. The policy states that new applications to appropriate water for domestic purposes from the shallow alluvial fill aquifer will not be approved. Currently there are no known users of water within OU III for domestic purposes. Deed restrictions have also been placed on properties formerly owned by DOE that prohibit water usage for domestic purposes. DOE accepts responsibility for ensuring that these institutional controls are working and monitors them by conducting annual inspections of the affected properties to look for evidence of domestic use of the alluvial ground water in the OU III area.

Institutional controls for contaminated soil and sediment properties include a prohibition on building habitable structures in and removal of contaminated soil from supplemental standards areas. The U.S. Army Corps of Engineers negotiated settlements with property owners in which compensation was made to the owners for restrictive easements that formalized the institutional controls. DOE accepts responsibility for monitoring the institutional controls. Property inspections described in Volume II—*Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b) address the LTSM requirements for monitoring institutional controls placed on contaminated soil and sediment properties.

5.3.2 Post-Record of Decision Monitoring Plan

The post-ROD monitoring plan (DOE 2004b) defines the administrative and environmental monitoring tasks necessary to ensure that the selected remedy for OU III meets remediation goals for surface and ground water and remains protective of human health and the environment.

This plan:

- Presents the program for post-ROD surface water and ground water monitoring. The plan specifies the locations, frequency, and protocol to collect the surface water and ground water samples, submit the samples for laboratory analysis, and perform other routine monitoring tasks.
- Specifies the analytical parameters, laboratory analytical methods, and laboratory reporting limits for the environmental samples.
- Presents the biomonitoring program for the post-ROD period which outlines the locations, frequency, and field protocol for abiotic and biotic monitoring required to evaluate potential ecological risk associated with selenium. In addition, the rationale, trigger mechanisms, and schedule to implement phased selenium monitoring tasks are presented.
- Specifies the method to evaluate and report the progress of surface water and ground water restoration.

Appendix A of the *Post-ROD Monitoring Plan* (DOE 2004b) is the performance evaluation plan for monitored natural attenuation at OU III. The plan specifies the method, criteria, and reporting requirements for evaluating the progress of aquifer restoration within OU III. The progress of aquifer restoration will be evaluated primarily by comparing temporal trends of uranium concentration in ground water, as determined by semiannual monitoring data, to concentrations predicted by numerical modeling. Uranium is the primary ground water contaminant at the site because it is the most widespread in extent and is the single greatest contributor to potential human health risk. Uranium trend analysis will be performed for separate regions of the aquifer using concentration averaging for samples from multiple wells for both the observed and model-predicted data sets. Specific criteria in this plan define whether the observed restoration rate for uranium meets expectations. Attenuation rates of contaminants of concern other than uranium will also be evaluated.

5.4 Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews

Annual inspections, performed by the LTSM Program, are conducted to ensure the remedy remains protective of human health and the environment. The inspections are designed to lead to successful completion of CERCLA Five-Year Reviews. The specific requirements of the annual inspection report and CERCLA Five-Year Reviews are provided in the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews* (Volume IV) (DOE 2001c) and in the *Monticello Long-Term Surveillance and Operating Procedures for Surface and Ground Water* (Volume III) (DOE 2005). Those items that have to be done as part of the LTSM for OU III are presently identified in the OU III documents.

Annual reviews are scheduled in September of each year and CERCLA Five-Year Review Reports are scheduled every 5 years with the next five-year review due in June of 2007. Subsequent five-year reviews are triggered by the submittal date of the previous five-year review.

6.0 Scheduled LTSM Activities

The Monticello LTSM Representatives are responsible for conducting the activities listed in [Table 6–1](#). These are either regularly scheduled activities or triggered by events. This table includes a cross-reference to the LTSM operating procedure volume and page number where the activity is discussed in detail.

Table 6–1. Monticello LTSM Representative Responsibilities

Activity	LTSM Operating Procedure		Comments
	Volume	Page Number	
Weekly			
Water Level Monitoring of Repository and Pond 4 LCRS and LDS	Volume I	3–3	
City Streets and Utilities Surveillance	Volume II	2–2	
Highways 191 and 666 Surveillance	Volume II	2–5	
Identify Planned excavation of City Streets and Utilities	Volume II	2–5	
Identify Planned excavation of Highways 191 and 666	Volume II	2–6	
TSF Inspection	Volume I	7–6	Checklist available
Monthly			
Repository Surveillance	Volume I	2–2	Checklist available
Pond 4 Surveillance	Volume I	4–7	Checklist available
MS-00176-VL Surveillance	Volume II	2–7	
Sample Pond 4 LDS and Pond 4	Volume I	4–5	If action leakage rate is exceeded, sample for Appendix C analytes.
Print Repository Water Level Monitoring Report	Volume I	3–4	
Print Pond 4 Water Level Monitoring Report	Volume I	4–3	
Quarterly			
Repository Surveillance	Volume I	2–7	Checklist available
Millsite Surveillance	Volume I	5–2	
Government Owned P/J Properties Surveillance	Volume II	2–8	
Highways 191 and 666 Surveillance	Volume II	2–6	
Sample Repository LDS	Volume I	3–4	If water is available, sample for Appendix C analytes.
Sample Pond 4 LDS and Pond 4	Volume I	4–5	If water is available, sample for Appendix C analytes.
Annually			
Repository Telemetry Test	Volume I	3–11	
Pond 4 Telemetry Test	Volume I	4–9	
Sample Repository LDS	Volume I	3–4 3–9	If action leakage rate is exceeded, sample for Appendix H analytes.
Sample Pond 4 LDS and Pond 4	Volume I	4–5 4–6	If water is available, sample for Appendix H analytes.
Determine Ownership of MS–00176–VL	Volume II	2–8	

Table 6–1 (continued). Monticello LTSM Representative Responsibilities

Activity	LTSM Operating Procedure		Comments
	Volume	Page Number	
Triggered by 25 Year Storm Event			
Repository Surveillance	Volume I	2–10	
MS-00176-VL Surveillance	Volume II	2–7	
City Streets and Utilities Surveillance	Volume II	2–2	
Government Owned P/J Properties Surveillance	Volume II	2–8	
Soil and Sediment Properties Surveillance	Volume II	2–10	
Highways 191 and 666 Rights-of-Way	Volume II	2–5	
Spring and Fall of Each Year			
Soil and Sediment Properties Surveillance	Volume II	2–10	

The Contractor LTSM Project Manager is responsible for conducting the scheduled activities listed in the [Table 6–2](#). This table includes a cross-reference to the LTSM operating procedure volume and page number where the activity is discussed in detail.

Table 6–2. Contractor LTSM Project Manager Scheduled Activities

Activity	LTSM Operating Procedure		Comments
	Volume	Page Number	
Annual Inspection of MVP and MMTS	Volume IV	2–2	Conducted in August of each year. Checklist available.
CERCLA Five-Year Review of MVP and MMTS	Volume IV	3–1	Conducted every five years. The next one is due June 2007. Checklist available.
Ground and Surface Water Sampling	Volume III	2–2	One sampling even in April. One sampling event in October.
Annual Data Summary Report	Volume III	2–6	Report due September 1.
Annual Inspection of OU III	Volume III	3–2	
CERCLA 5-Year review of OU III	Volume III	3–6	
Annual Inspection of permeable reactive barrier	Volume III	4–1	

7.0 Organizational Resources

In 1988, EPA, UDEQ, and DOE entered into a Federal Facilities Agreement (FFA) that defines the roles and responsibilities of the parties for response action at the MMTS and MVP sites. DOE is a responsible party with respect to past releases at the Monticello sites. DOE is the lead agency and performs response actions pursuant to Section 120 of CERCLA. EPA and UDEQ provide oversight of the response actions as described in the FFA. The roles, responsibilities, and management relationship among DOE, EPA, and UDEQ are defined in the FFA.

7.1 DOE Organization

The Director of Legacy Management (LM) is the approving official who has overall responsibility and authority within DOE for the Monticello Projects (see [Figure 7-1](#)). The DOE Land and Site Management Director has been delegated the overall responsibility for all LTSM activities at all sites including the Monticello Projects.

The DOE Monticello Project Manager is the DOE implementing official and has authority for day-to-day implementation, management, and direction of the projects. The DOE Monticello Project Manager is responsible for overall project integration and daily project coordination and fills the responsibilities of the Project Coordinator as defined in the FFA. The Project Coordinator is the formal DOE point of contact for EPA and UDEQ for the Monticello Projects.

DOE–Grand Junction Office was assigned responsibility for the LTSM Program on January 1, 1989. Because the Monticello sites were once part of DOE’s former Surplus Facilities Management Project, all long-term activities at Monticello were specifically included in the scope of the LTSM Program. Administration of LTSM activities was transferred to the LTSM Program on October 1, 2001. The DOE Monticello Project Manager will oversee completion of all remaining repair items and implementation of the remedy for OU III. The DOE Monticello Project Manager will manage the maintenance items identified in this manual and Volumes I–IV of the LTSM operating procedures.

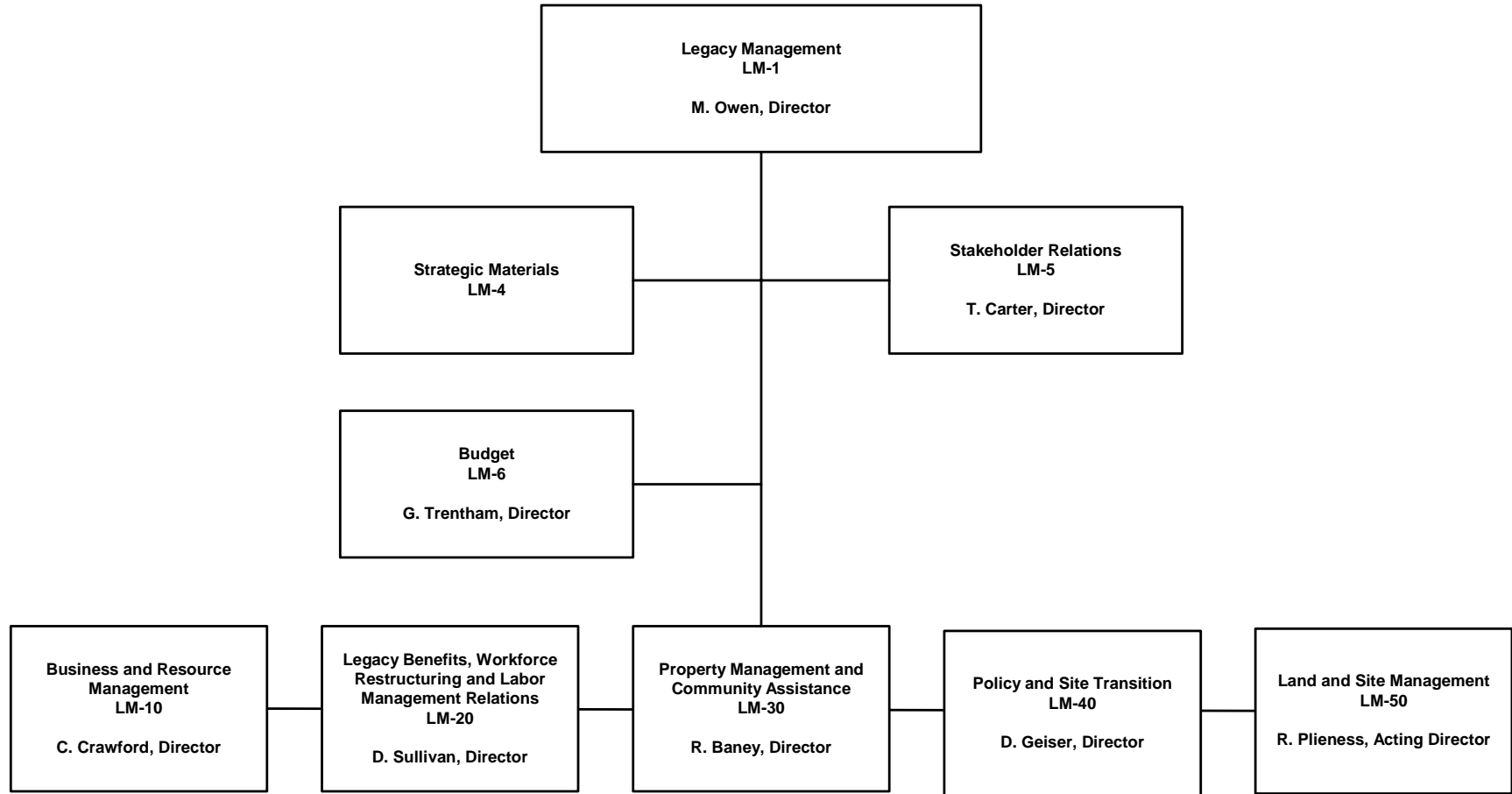


Figure 7-1. DOE Project Management Structure

7.2 Contractor Organization

DOE has contracted with S.M. Stoller Corporation for ensuring that all remedial activities are executed in compliance with the FFA, regulatory, environmental, health and safety, and quality assurance requirements. The DOE contract is periodically recompeted. The new contractor will be performing the same scope of work.

The Task Order Manager (contractor employee) reports to the DOE Task Order Manager and has the ultimate responsibility for implementing the project scope and schedule defined in Task Orders by the DOE project management staff. The Technical Assistance Contract (TAC) Contractor has assigned a Project Manager for the Monticello Projects (who reports to the LTSM Program Manager) who is responsible for the day-to-day implementation, management, and direction of the projects. TAC employees (Monticello LTSM Representative and backup based in Monticello, Utah) have been assigned to carry out the LTSM activities. The Monticello LTSM Representative reports to the Contractor LTSM Project Manager and is assisted by a backup Monticello LTSM Representative. [Figure 7–2](#) shows the organization elements of the contractor.

[Figure 7–3](#) shows the Monticello LTSM project organization including the interaction between the various organizations (e.g., EPA, UDEQ, UDOT, City of Monticello, DOE, and the contractor).

7.3 Contact Information

The contact address and telephone number of the DOE Monticello Project Manager is:

DOE Monticello Project Manager
U.S. Department of Energy
2597 B3/4 Road
Grand Junction, Colorado 81503
(970) 248-6000

The contact address and telephone number of the Monticello LTSM Representative is:

Monticello LTSM Representative
U.S. Department of Energy
Monticello Field Office
7031 South Highway 191
P.O. Box 909
Monticello, Utah 84535
(435) 587-2902

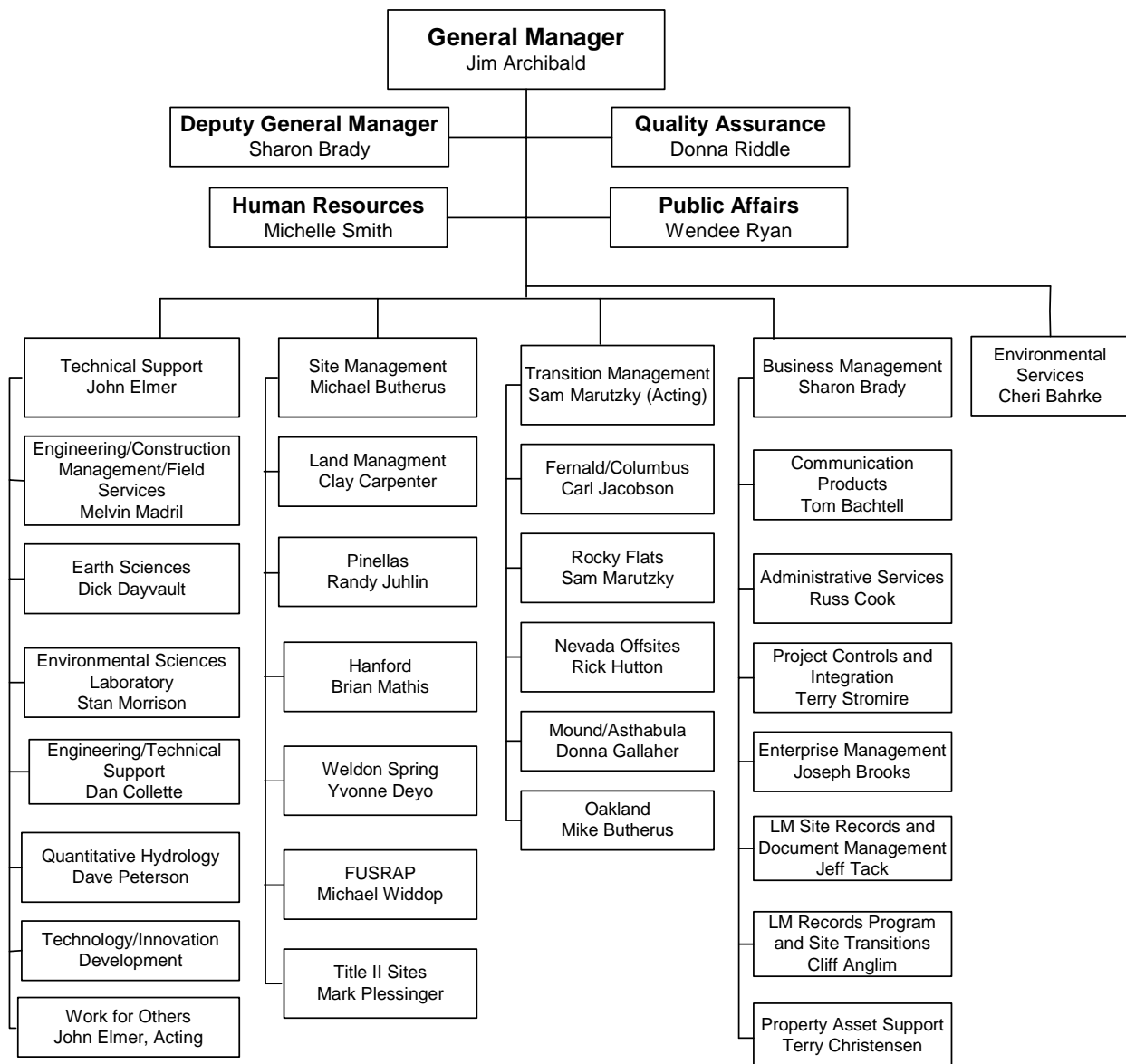


Figure 7–2. Contractor Management Structure as of March 23, 2005

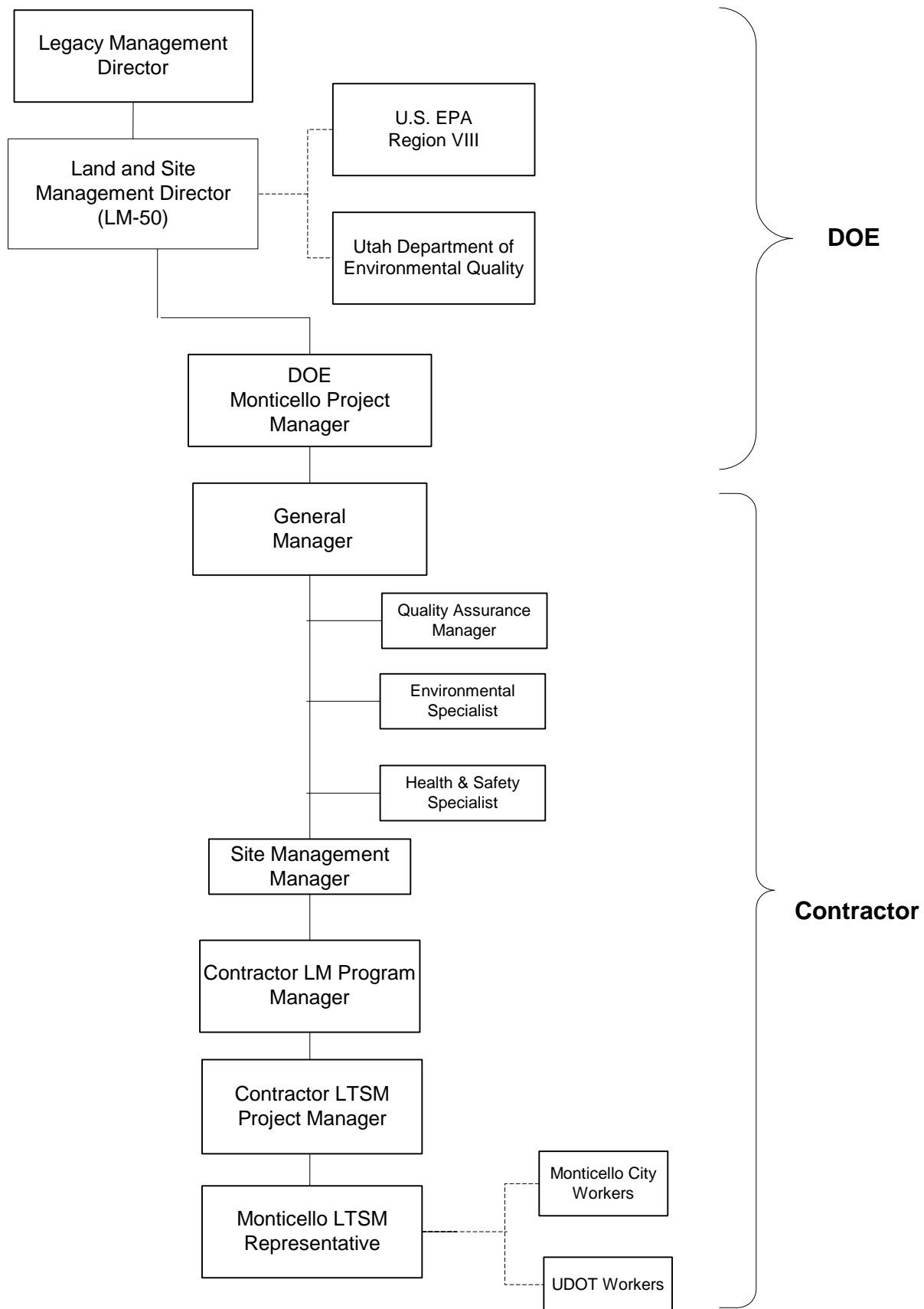


Figure 7-3. Monticello LTSM Project Organization

End of current text

8.0 Change Control Process

8.1 Purpose

The purpose of this procedure is to ensure that changes to this manual are appropriately documented and that they have been reviewed by the affected organizations and approved by the responsible levels of management.

8.2 Scope

This procedure shall be used to initiate and authorize changes to this *Monticello Long-Term Surveillance and Maintenance Administrative Manual* and the associated LTSM Operating Procedures (Volumes I through IV).

8.3 Responsibilities and Procedures for Review and Change Control

DOE, EPA, UDEQ, or contractor staff may make requests for changes or additions to the LTSM procedures. Requests for changes will be made to the DOE Monticello Project Manager who will arrange a meeting with DOE, EPA, and UDEQ to discuss the proposed changes and jointly determine the need for a change. When a change is required, DOE will direct the Contractor LTSM Project Manager to initiate the change control process.

Upon being directed to initiate a new procedure or make a revision to an existing procedure or process, the Contractor LTSM Project Manager will:

- Prepare a draft of the new or revised material for internal review.
- Determine who will review the proposed change(s).
- Distribute the material with a Record of Review form or equivalent to the designated reviewers.
- Resolve internal review comments.
- Prepare a draft for external review by DOE and regulators (EPA and UDEQ).
- Resolve review comments. Concurrence is required by all reviewers.
- Prepare the new or revised material for distribution.
- File the review records in accordance with the working file index.
- Send a draft final copy to DOE and the regulators for review.
- Ensure external comments have been satisfactorily addressed before authorizing the change by signature on the documents Signature Page.

Designated Reviewers will:

- Review the change for completeness and technical accuracy
- Ensure the change will enhance or improve the procedure
- Use the Record of Review form or equivalent provided with the draft to document comments

Changes will typically include reissuing the:

- Signature page, authorizing the change;
- Table of Contents (identifying the change through side-bars or dates) and the entire procedure, chapter, or section (page changes are not allowed).

Markings such as change bars or text highlighting of some sort may be used to identify the revised material. When a new procedure, process or a major revision to a current procedure is prepared markings of this nature are not needed and the change will be noted by the revision date on the footer and the identifier used in the Table of Contents. A summary of changes page will be included with the controlled document transmittal package.

After all internal and external review comments have been addressed the changes will be issued to the document holders (including Master Copy, Record Copy, and Information Repository copy holders) identified on the controlled document distribution list shown on [Table 8–1](#). Additional instructions provided with the Document Control distribution sheet will indicate whether the material is new or has been significantly revised.

8.4 Records

A historical copy of the documents, including changes and reviews will be maintained in accordance with the records requirements of the *LTSM Working File Index*.

Table 8–1. Distribution List

	LTSM Administrative Manual	Volume I	Volume II	Volume III	Volume IV
DOE LTSM Project Manager	2 copies	2 copies	2 copies	2 copies	2 copies
EPA	2 copies	2 copies	2 copies	2 copies	2 copies
UDEQ	2 copies	2 copies	2 copies	2 copies	2 copies
Monticello LTSM Representative(s)	1 copy	1 copy	1 copy	1 copy	1 copy
Monticello Information Repository	2 copies	2 copies	2 copies	2 copies	2 copies
Contractor LTSM Project Manager	1 copy	1 copy	1 copy	1 copy	1 copy
LTSM Record Coordinator (record copy)	1 copy	1 copy	1 copy	1 copy	1 copy
Contractor Library	1 copy	1 copy	1 copy	1 copy	1 copy
Contractor Controlled Document Coordinator	Master Copy	Master Copy	Master Copy	Master Copy	Master Copy
Monticello City Manager	1 copy	1 copy	1 copy	1 copy	1 copy
UDOT Environmental Engineer			1 copy		

End of current text

9.0 Records Management

All records created in support of LTSM of the Monticello NPL sites shall be managed in accordance with the requirements and policy of the LTSM Program for record and nonrecord (i.e., working copies) material. This guidance includes, but is not limited to, meeting the requirements of Title 44, *United States Code*, Chapter 33, “Disposal of Records”; 10 CFR 835, *Subpart H—Records*; 36 CFR 1228, *Disposition of Federal Records*, Subpart B, Scheduling Records; DOE Order 1324.5B, *Records Management Program*; and the *Quality Assurance Project Plan for the Monticello LTSM Project* (DOE 2001e).

These requirements are implemented through the site file plan documented as the *LTSM Working File Index/Plan*. It is located on the intranet at \Forms\Records File Indices\MRAP-RXX.doc. This continually changing document provides detailed guidance for the creation, protection, responsibility, location, storage, access, and disposition of all LTSM Monticello records. Revisions to this document are controlled by the Contractor Monticello Project Manager. In addition, an electronic database (Record Log System) provides access control and record retrieval capabilities through the application of bar-code technology. The database is accessible by the LTSM Record Coordinator.

9.1 Information Repository and LTSM Record Collection

There are two active collections of documents associated with Monticello LTSM activities, the Information Repository, and the LTSM Records Collection. The administrative records for MMTS (OUs I and II), MVP, and OU III have been completed with the signing of each of the RODs.

Information Repository—The information repository is a working set of documents which contains the information pertaining to the response action as required under CERCLA. It is available for review at the Monticello Field Office and DOE-LM office in Grand Junction. The information repository is updated annually and appended to this document. The subject index for the Information Repository documents is included in Appendix B.

The annual reports and supporting documentation in the information repository will

- Document the history of the remedy performance,
- Provide documentation necessary to prepare and conduct site surveillance and maintenance activities,
- Provide DOE, EPA, and UDEQ with the information necessary to forecast future surveillance and maintenance needs, and
- Provide information to the public to demonstrate that remedy integrity has been maintained.

LTSM Record Collection—The LTSM Record Collection contains the record copy for the LTSM Program. The retention period and disposition authority for all records created in support of the LTSM of the supplemental standards properties will be documented in the *LTSM Working*

File Index. This collection is managed and stored in accordance with the requirements established in the Quality Assurance Project Plan (QAPjP) provided in [Appendix A](#).

The LTSM Record Collection is stored at the DOE facility. The management, retrieval, and storage of the collection is overseen by the LTSM Record Coordinator. The LTSM Record Coordinator is appointed by the Contractor LTSM Project Manager. Records within the collection are filed in accordance with the guidance and structure provided in the *LTSM Working File Index*.

9.2 Record Keeping

Record keeping is included in this umbrella document because record keeping requirements are common to all aspects of the LTSM program.

9.2.1 Assigning File Codes to Records

The Monticello LTSM Representative and all other personnel generating LTSM records shall:

- Ensure that the applicable LTSM project file number is placed on *all* records created as a result of the LTSM of the supplemental standards properties
- Use the most current revision of the *LTSM Program Working File Index* as the source for assigning project file numbers. The most current revision can be found on the GJO computer network or in the LTSM Record Collection.
- Place the project file number on the distribution list for the record **or** write the project file number in the lower right-hand corner of the record.

If the *LTSM Program Working File Index* does not address a record created by these procedures, or *if* additional environmental protection or control is needed for a record type, **then** contact the Contractor LTSM Project Manager for resolution of the issue.

9.2.2 Transferring Records to the LTSM Record Collection

Most record material is transferred to the LTSM Record Collection at the time of distribution. The records will be bar coded with key data entered in the Record Log System upon receipt by the LTSM Record Custodian, or designee, then filed in the LTSM Record Collection.

Note: All records associated with radiologically contaminated materials having Ra-226 concentrations greater than 130 pCi/g shall first be submitted to the Radiological Control Manager for supervisory review and sign-off before being sent to the LTSM Records Custodian.

9.3 Drawings

A drawing index resides in the Monticello Field Office listing engineering drawings of all supplemental standards properties at Monticello, Utah. Repository and Pond 4 as-builts and

technical documentation of the telemetry system are kept in the Monticello Field Office records vault. The drawing index is used by the Monticello LTSM Representative to identify the appropriate drawing for locating contamination left in place, utility lines, erosion activity, and excavations for each supplemental standards property. The drawing index lists the scale of each drawing and the most recent date that each drawing was electronically updated. MVP completion reports also include drawings of assessed and removed contamination and may include contamination data in adjoining city streets or utility rights-of-way.

The Monticello LTSM Representative shall keep the drawings up to date with pertinent information required by the LTSM Operating Procedures (Volumes I through IV). The drawings will be annotated in permanent ink by the Monticello LTSM Representative each time new information with regard to radioactive contamination becomes available. The drawings shall be stored in the Monticello Field Office records vault. The annotated drawings will be forwarded annually in August by the Monticello LTSM Representative to the Contractor LTSM Project Manager to be electronically updated. Copies of the revised drawings will be returned to the Monticello LTSM Representative and a record copy sent to the LTSM Records Custodian for storage in the LTSM Record Collection.

9.4 Record Field Books

Documentation is necessary to record LTSM activities for Monticello. The activities will be recorded in the record field books. The following section describes the process for ensuring complete and accurate histories of these activities so that evidence of compliance with the LTSM Plans is adequately documented.

The Contractor LTSM Project Manager or designee shall:

- Assign record field books to the Monticello LTSM Representative.
- Assign individual books for the Repository, Pond 4, each of the supplemental standards properties, and to the TSF as follows:
 - Repository/Pond 4 Record Book
 - City Streets and Utilities Record Book
 - Highways 191 and 666 Record Book
 - MS-00176-VL Record Book
 - Government-Owned P/J Properties Record Book
 - OU II Montezuma Creek Soil and Sediment Properties Record Book
 - TSF Record Book
- Maintain a Record Field Book Log to identify to whom the record field books are issued, location of the record books, and the unique identifier (beginning with Book #1) for each record book.

The Monticello LTSM Representative, upon receiving a record field book, shall:

- Review the procedures within this manual and the operating procedures to determine which information shall be recorded in the record field books.
- Record the following on the cover of the record field book:
 - Title of record book (property identification)
 - Starting date of record (use all four characters to designate the year)
 - Identification of the Monticello LTSM Representative, including address and phone number
- On the first page of the record field book, prepare a Signature/Initial Log that lists the printed name, signature, and initials used by the Monticello LTSM Representative, backup personnel, and reviewers who are authorized to make entries in the record field book; date this page.
- Create a duplicate record field book by photocopying each day's entry upon completion. The duplicate will not be removed from the Monticello field office until the record field book is completed and verified. Any changes made by the independent reviewer will be included in the duplicate book. The original record field book will be forwarded to the LTSM Record Collection through the LTSM Record Coordinator for long-term retention and the duplicate will be stored in the Information Repository.

9.4.1 Recording Field Data

When making entries in the record books, the Monticello LTSM Representative shall:

- Write legibly with permanent black or dark blue ink so that the entry is reproducible.
- Clearly describe the observations that are made so that other equally experienced personnel can understand what was observed.
- Keep the record field book pages intact (i.e., do not remove pages from the book).
- Sign and date (using all four characters to designate the year) the entry at the conclusion of the entry.
- Make a copy of each completed entry and file it in the duplicate binder.
- If a page has entries for more than one day, sign and date each entry.
- If a page or part of a page must be left blank, rule across the blank area and sign and date the rule line.
- If entries for a specific activity are made on two or more pages, or if entries are separate records, cross-reference the pages or records so that they are known to belong together.

- For the last entry in a record field book, state that activities are complete or give a reference to a sequential record book.
- For the first entry in a record field book, give reference to the previous record book.
- Transfer completed record field books to the Contractor LTSM Project Manager or his designee for review.

Correcting Errors

If an error is made in a record field book entry, the Monticello LTSM Representative shall:

- Draw a line through the error.
- Enter the correct data.
- Initial and date the correction.
- State in the record field book the reason for the correction, as appropriate.

Note: Material such as opaquing fluid or correcting tape that obscures the original entry is prohibited.

9.4.2 Storage of Record Field Books at the Monticello Field Office

The Monticello LTSM Representative shall:

- Protect record books from loss or damage.
- Protect record books from light, moisture, heat, and pests.
- Mark photocopies of record books with the word “copy”.

9.4.3 Review of Record Field Books

When an LTSM record field book is completed, the Monticello LTSM Representative shall submit it to the Contractor LTSM Project Manager or designee, who shall then assign an Independent Reviewer to review the book.

The Independent Reviewer shall:

- Evaluate the record book for accuracy, content, error correction, legibility, and reproducibility.
- Ensure that record book notations and observations conform to the requirements of the procedures in this manual.

- When satisfied that the data entered is complete and correct, sign and date the record book, making note of the pages and supporting documentation that were reviewed.
- *If* an error in an entry is found, *then*:
 - Verify the correction with the Monticello LTSM Representative.
 - Draw a line through the error.
 - Make the correct entry.
 - Initial and date the correction.
 - State in the record book the reason for the correction.
 - State that the correction was verified by the Monticello LTSM Representative.
- *If* a written comment needs to be made in a record book, *then*:
 - Clearly identify the comment as a review comment.
 - Sign and date the comment.
- *If* any of the pages are changed during the review, *then* a copy shall be made of the pages for the duplicate record field book.

9.4.4 Transfer of the Record Field Books

When the review of a record field book is complete, the copied pages will be forwarded to the Monticello LTSM Representative at the Monticello Field Office for integration into the duplicate record field book. The original record field book will be forwarded to the LTSM Record Coordinator for bar coding and storage in the LTSM Record Collection.

9.5 Photographic Records

Photographs are used as a means to ensure that a thorough and efficient inspection of each property is performed. The Monticello LTSM Representative shall:

- Take photographs with a digital camera or 35-millimeter (mm) film that is *not* self-developing.
- When a photograph is taken, record the following information in the record book:
 - Property and location
 - Date; time of day
 - File number or film roll number and frame number (if film camera is used)
 - Subject and description
 - Weather conditions, if applicable.
 - Direction photograph taken.

Upon printing digital photographs or receipt of the developed prints, identify each print on a label as follows:

- Site name (or abbreviation); date (e.g., 2/05/2000); description.

- Use the following abbreviations, if needed:

N	North	WSW	West southwest
NNE	North northeast	NW	Northwest
NE	Northeast	NNW	North northwest
ENE	East northeast	SM	Survey monument
E	East	SMK	Site marker
ESE	East southeast	mi.	mile
SE	Southeast	in.	inches
SSE	South southeast	ft	foot
S	South		
SSW	South southwest		
SW	Southwest		
W	West		
WNW	West northwest		

- Place photographic prints in the photographic file located in the Monticello Field Office.
- Send digital files to the Contractor LTSM Project Manager. The Contractor LTSM Project Manager shall copy the files to the LM share directory for permanent storage.

9.5.1 Negatives

The Monticello LTSM Representative shall:

- Place the photograph negatives in archival-quality protective sleeves and annotate the sleeve with record book page number, film roll number, and frame number.
- Create an index of the negatives consistent with the annotations that are placed on the prints.
- Place the negatives in the records vault at the Monticello Field Office.
Note: The negatives will become the long-term record, whereas the prints will be kept for convenience.
- The negatives shall be transferred to the LTSM Record Collection biannually.

End of current text

10.0 Health and Safety

LTSM activities will be performed in accordance with the requirements specified in the *Monticello LTSM Project Safety Plan* (DOE 2001d). As a supplement to the project safety plan, Job Safety Analyses (JSAs) may be developed for tasks specific to LTSM. The *Monticello LTSM Project Safety Plan* (DOE 2001d) is specific to Monticello activities and is consistent with *Health and Safety Manual* (STO 2) that are applicable to all projects managed by DOE–GJO. A copy of the *Health and Safety Manual* (STO 2) and *Monticello LTSM Project Safety Plan* (DOE 2001d) are maintained as controlled documents through the LTSM Representative at the Monticello Field Office. A copy is also included in the Information Repository.

In Monticello, the Monticello LTSM Representative is the Site Safety Supervisor and has the authority to enforce safety requirements for all activities conducted on DOE property.

End of current text

11.0 Training

Training requirements are based on the individual tasks identified in the LTSM operating procedures (Volumes I through IV). Training identified in [Table 11-1](#) is required for personnel conducting LTSM activities identified in the *Long-Term Surveillance and Maintenance Operating Procedures for the Monticello Mill Tailings Site Repository and Millsite* (DOE 2001a). Training identified in [Table 11-2](#) is required for personnel conducting LTSM activities identified in the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Supplemental Standards Properties* (DOE 2001b). Training identified in [Table 11-4](#) is required for personnel conducting LTSM activities identified in the *Monticello Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews* (DOE 2001c). Training identified in [Table 11-3](#) is required for personnel conducting water sampling activities identified in the *Monticello LTSM Operating Procedures for Surface and Ground Water*, Volume III (DOE 2005).

The TAC contractor maintains training records for contractor personnel. They are available by contacting the Training Department at (970) 248-6797. Copies of training qualification cards for City of Monticello employees are maintained in the Monticello Field Office.

At a minimum the Monticello LTSM Representative will have current certification as a Radiological Control Technician (RCT) and as a Hazardous Material Shipper/Driver, and have working knowledge of the LTSM Operating Procedures. RCT qualifications supersede Radiological Worker II (RWII) training. The Monticello LTSM Representative shall also be qualified as the Safety Supervisor through training and as authorized by the Health and Safety Manager.

Key to LTSM training matrix tables:

LTSM Briefing: Overview of the program, LTSM Administrative Manual, and relevant operating procedures (course IT048).

LTSM Training: Training provided to the Monticello LTSM Representative to implement the requirements of the Monticello Administrative Manual and the Operating Procedure Manuals. This training is provided by the Contractor LTSM Project Manager.

RW II: Radiological Worker II Training (Course HS 113) and required refresher training (HS 115 or HS 117).

Scintillometer Training: On-the-Job (OJT) training includes operation and use of the Delta and Gamma Scintillometers in conducting radiological surveys (Chapters 2, 3, 5, and 6 of the *Field Services Procedures Manual*, STO 203).

Table 11-1. Training Matrix for LTSM Operating Procedures for the Monticello Mill Tailings Site Repository and Millsite—Volume I

Monticello LTSM Operating Procedures—Volume I Chapters	Monticello LTSM Representative	City Workers		Contractor LTSM Project Manager	Carrier Operator (City worker or Monticello LTSM Representative)	
		< 130 pCi/g	> 130 pCi/g		<130 pCi/g	> 130 pCi/g
Section 1.0—Manual Overview	LTSM Briefing					
Section 2.0—Repository Cover	RCT Qualified (RT 003) LTSM Training					
Section 3.0—Repository LCRS and LDS	RCT Qualified (RT 003) LTSM Training <i>Environmental Procedures Catalog (STO 6)</i>					
Section 4.0—Pond 4	RCT Qualified (RT 003) LTSM Training <i>Environmental Procedures Catalog (STO 6)</i>					
Section 5.0—Former Millsite	LTSM Training					
Section 6.0—Transportation of Radiologically Contaminated Material	LTSM Training RCT Qualified (RT 003) DOE – DOT HazMat Certified Shipper/Driver (HM 115, 116, 210, 211, 212)	LTSM Briefing GRT (HS 111)	LTSM Briefing RW II HM 100, 115, 116	DOE–DOT Hazmat Certified Shipper HM 116, 210, 211, 212 40 CFR 260-299	LTSM Briefing GRT (HS111)	LTSM Briefing RW II (HS 113/117) HM 100, 115, 116
Section 7.0—Management of the Temporary Storage Facility	LTSM Training RCT Certified 1910.120 Training	LTSM Briefing GRT (HS 111)	LTSM Briefing RW II (HS 113/117)	1910.120 Training		

Table 11-2. Training Matrix for Monticello LTSM Operating Procedures for Supplemental Standards Properties—Volume II

Monticello LTSM Operating Procedures—Volume II Chapters	Monticello-LTSM Representative	City Workers		UDOT Workers	Contractor LTSM Project Manager
		< 130 pCi/g	> 130 pCi/g	< 130 pCi/g	
Section 1.0—Manual Overview	LTSM Briefing				
Section 2.0—Routine Surveillance	LTSM Training RCT Qualified (RT 003)				
Section 3.0—Radiological Surveys	LTSM Training Scintillometer Training NORM Iden. (OJT)				
Section 4.0—Radiologically Contaminated Material	LTSM Training RCT Qualified (RT 003)	LTSM Briefing GRT (HS 111)	LTSM Briefing RW II (HS 113/117)	LTSM Briefing GRT (HS 111)	
Section 5.0—Suspect Hazardous Substances	LTSM Training RCT Qualified (RT 003) Respirator Wearer (HS 350) PID Training				40CFR 260-299 49CFR 106-180 40CFR 300-399 40CFR 761-763

LTSM = Long-Term Surveillance and Maintenance

RCT = Radiological Control Technician

DOE-DOT Haz Mat = Department of Energy-Department of Transportation Hazardous Material

GRT = General Radiological Training

RW = Radiological Worker

HM = Hazardous Material

HS = Health and Safety

NORM = Naturally Occurring Radioactive Material

OJT = On the job

PID = Photo Ionization Detector

RT = Radiological Training

Table 11–3. Training Matrix for Monticello Long-Term Surveillance and Maintenance Procedures for Surface and Ground Water—Volume III

Monticello LTSM Operating Procedures Volume III Chapters	Ground and Surface Water Samplers
Section 2.0—Performance Monitoring	Procedures applicable to water sampling from the <i>Environmental Procedures Catalog</i> (STO 6)

Table 11–4. Training Matrix for Monticello Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews—Volume IV

Monticello LTSM Operating Procedures Volume IV Chapters	Monticello LTSM Representative	Chief Inspector and Inspection Team Members
Section 1.0—Manual Overview	LTSM Briefing	
Section 2.0—Annual Inspections	RCT Qualified	GRT
Section 3.0—CERCLA Five-Year Reviews	RCT Qualified	GRT

NORM Identification: Field recognition of Naturally Occurring Radioactive Materials (NORM) will be provided by a geologist.

RCT: Radiological Control Technician qualified through GJO course RT003 to perform Health and Safety functions associated with radiological controls and monitoring.

Respirator Wearer: Initial and refresher training for selection, inspection and wearing a respirator (GJO Course HS350). Occupational Medical evaluation and a Fit-Test are required prior to respirator use.

Photo ionization detector (PID) Training: On-the-job training in the operation and use of a PID for field screening of organic vapors. Training is provided by Health and Safety personnel.

HM 1 through 12 and HM 1, 2, 10, and 15: These refer to GJO Hazardous Materials training course modules (GJO course numbers HM101, 102, etc.) Completion of HM101 through HM112 will qualify the individual as a Certified Shipper. Completion of HM101, HM102, HM110, and HM115 will qualify the individual as a Hazardous Materials Driver.

GRT: General Radiological Training (GJO Course HS111) provides general information about radioisotopes and access control and protection.

CFR Standards: The Environmental Specialist will have knowledge of CFRs pertaining to Hazardous Waste (40 CFR 200-299, CERCLA 40 CFR 300-399), Toxic Substances Control Act (40 CFR 761-763), U.S. Department of Transportation (DOT) regulations (49 CFR 106-180) and in current Occupational Safety and Health Administration hazardous waste training regulations (29 CFR 1910.120) GJO Course HS203.

End of current text

12.0 Quality Assurance

A Quality Assurance Program Plan (QAPP) for the DOE LTSM Program has been developed for long term surveillance and maintenance activities. The QAPP covers all LTSM Program sites assigned to DOE. To meet the project specific needs identified in task orders for the Monticello LTSM Project, a QAPjP has been prepared as a subtier quality plan in order to tailor the quality assurance requirements to the activities and inspections of the Monticello LTSM Project. The QAPjP, similar to the QAPP, specifies requirements for

- project planning and organization;
- preparation, implementation, and maintenance of project documents and records;
- management of work processes including inspections, corrective actions, reviews, control and use of measuring and test equipment, and systems for purchased items and services; and
- oversight of project activities through Management and Independent Assessments.

The *Quality Assurance Project Plan for the Monticello LTSM Project* (DOE 2001e) is included as Appendix A. The *Quality Assurance Program Plan for the Long-Term Surveillance and Maintenance Program* (DOE 2003b) is available through the Contractor LTSM Project Manager.

End of current text

13.0 References

Several references, available for review at the Monticello Field Office by the general public, EPA, and UDEQ, are applicable to LTSM activities conducted at Monticello. The references, available from the Information Repository, are listed in the index to the *Information Repository for the U.S. Department of Energy Monticello Mill Tailings Site/Monticello Vicinity Properties, Subject Index* which is provided as [Appendix B](#).

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36 CFR Part 1228. "Parks, Forrest, and Public Property," Chapter XII, *Code of Federal Regulations*, July 1999.

40 CFR Part 192. "Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings," *Code of Federal Regulations*, July 1, 1996.

40 CFR 300. "Protection of the Environment," National Contingency Plan, *Code of Federal Regulations*, 1999.

40 CFR Parts 260-299. "Resource Conservation and Recovery Act," Subtitle C.

40 CFR Parts 300-399. Subchapter J- "Superfund, Emergency Planning, and Community Right-to-Know Programs."

40 CFR Part 761. "Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions."

40 CFR Part 763. "Asbestos."

49 CFR Part 172-178. "DOT Regulations."

State of Utah. "Utah Hazardous Waste Management Regulations," Utah Administrative Code (UAC) R315-2-1.

15 U.S.C. 2601, *et seq.*, "Toxic Substances Control Act".

42 U.S.C. §4321 *et. seq.* "National Environmental Policy Act," Public Law 91-90, *United States Code*, January 1, 1970.

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STO 100. *General Administrative Procedures Manual*, continuously updated, section 3.0, “Records Management Program Plan,” prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 2. *Health and Safety Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 3. *Site Radiological Control Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 4. *Training Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 6. *Environmental Procedures Catalog*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 9. *Records Management Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 201. *Health and Safety Procedures Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado.

STO 203. *Field Services Procedures Manual*, continuously updated, prepared by S.M Stoller Corporation for the U.S. Department of Energy, Grand Junction, Colorado:

- Section 2.0 “Indoor/Outdoor Radiological Surveys”
- Section 3.0 “Excavation Control and Verification Procedures”
- Section 5.0 “Portable Gamma Scintillometer Measurements”
- Section 6.0 “Delta Scintillometer Measurements for In Site Radium Analysis”

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Appendix A

Quality Assurance Project Plan
for the
Monticello Long-Term Surveillance and Maintenance Project

Quality Assurance Project Plan
for the
Monticello Long-Term Surveillance and Maintenance Project

Administered Under the
DOE Long-Term Surveillance and Maintenance Program

Revision 01
December 2001

U.S. Department of Energy
Grand Junction Office
Grand Junction, CO

Prepared by
MACTEC Environmental Restoration Services, LLC
Grand Junction, Colorado

Work Performed Under DOE Contract DE-AC13-96GJ87335


Monticello Long-Term Surveillance and Maintenance Project

Quality Assurance Project Plan

Policy

This Quality Assurance Project Plan is a subtier document to the *Long-Term Surveillance and Maintenance Program, Quality Assurance Program Plan*, (MAC-2152). The Quality Assurance Project Plan identifies and documents the quality assurance requirements derived from the *Grand Junction Office Quality Assurance Standards* (manual GJO 1) that apply to the activities defined by Task Orders for the Monticello Long-Term Surveillance and Maintenance Project. This Quality Assurance Project Plan is one of several planning documents for the project. All work performed by MACTEC Environmental Restoration Services, LLC, on this project must comply with the requirements established through this plan

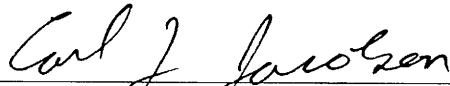
Prepared By:



Ardis K. Rukavina, QA Lead, LTSM Program

12-11-2001
Date

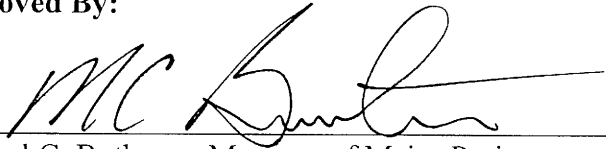
Concurrence:



Carl L. Jacobson, Contractor LTSM Program Manager

12/11/01
Date

Approved By:



Michael C. Butherus, Manager of Major Projects

12/11/01
Date

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List of Abbreviations

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CTMS	Commitment Tracking and Management System
DOE	Department of Energy
EPA	Environmental Protection Agency
FFA	Federal Facilities Agreement
GAP	General Administrative Procedures
GJO	Grand Junction Office
LTSM	Long-Term Surveillance and Maintenance
M&TE	Measuring and Test Equipment
MMTS	Monticello Mill Tailings Site
MRAP	Monticello Remedial Action Project
MSG	Monticello Surface- and Ground-Water Project
MVP	Monticello Vicinity Properties Project
NCR	Nonconformance Report
OU	Operable Unit
QA	Quality Assurance
QAI	Quality Assurance Instruction
QAPP	Quality Assurance Program Plan
QAPjP	Quality Assurance Project Plan
SARA	Superfund Amendments and Reauthorization Act

List of Applicable Company Manuals

The following manuals implement portions of the QA Program. Where applicable, these documents will be referenced by manual title throughout this QAPjP as implementing documents. The current revision of each document is to be used.

GJO Quality Assurance Standards, GJO 1
GJO Health and Safety Standards, GJO 2
GJO Site Radiological Control Manual, GJO 3
GJO Training Manual, GJO 4
GJO Environmental Procedures Catalog, GJO 6
MACTEC-ERS General Administrative Procedures Manual, MAC-1000
MACTEC-ERS Project Management Control System, MAC 1002
MACTEC-ERS Monticello Desk Procedures Manual, MAC-3005
MACTEC-ERS Procurement Manual, MAC-3010

Revisions and Records

The QA Lead, at the direction of the Contractor LTSM Program Manager, will revise the QAPjP when necessary to meet project needs or changes in company or customer requirements. Revisions will require reviews and approvals at the same levels as the original document. Copies may be obtained from the Contractor LTSM Program Manager, or designee, who maintains the distribution lists and issues changes to project documents. The record copy of QA Plans will be submitted to the project record file as specified by the LTSM working file index and in Section 3.0 of the *MACTEC—ERS General Administrative Procedures (GAP) Manual (MAC-1000)*.

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I. Introduction

The Long-Term Surveillance and Maintenance (LTSM) Program was established by the U.S. Department of Energy (DOE) at the Grand Junction Office (GJO) in 1988. MACTEC Environmental Restoration Services, LLC (hereafter known as the Contractor) is the Technical Assistance and Remediation contractor for DOE at GJO. The LTSM Program is responsible for the long-term safety and performance of DOE disposal sites that contain radioactive waste, chiefly by-product materials or residual radioactive material, with low levels of radioactivity. These disposal sites (LTSM Projects) include both those sites completed by DOE remedial action programs and other sites transferred to DOE.

The LTSM Program conducts surveillance, environmental monitoring, maintenance, corrective actions, and emergency repairs as necessary at the disposal sites in order to verify that closure and regulatory requirements continue to be met. This Quality Assurance Project Plan (QAPjP) applies to the Monticello LTSM Project and the work scope and activities defined by project Task Orders.

Purpose and Scope

The purpose of this QAPjP is to further define the QA requirements, organizational interfaces, and implementing documents for the Monticello LTSM Project. A graded approach has been applied to the QA requirements in order to (1) provide assurance that the work performed under the Monticello LTSM Project will be compatible with LTSM Program QA requirements and (2) will be of the quality required to satisfy site-specific project objectives. This QAPjP establishes the quality requirements that apply to the work performed by the Contractor under the Monticello LTSM Project. QA requirements will be applied to subcontractors through procurement documents, as applicable.

QA Program Basis

This QAPjP is based on the requirements defined in the *GJO Quality Assurance Standards* (GJO 1), which meet the requirements of the following regulatory or consensus documents

- *DOE Order 5700.6C*, “Quality Assurance”;
- the specific requirements and philosophy of *the Code of Federal Regulations; Title 10, Part 830.120*, “Quality Assurance Requirements”;
- *ANSI/ASQC E4-1994*, “Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs”, and
- *ISO-9001-94*, “Quality System”.

Project Quality Level

The GJO QA program uses a graded approach in the application of QA requirements identified in the *GJO Quality Assurance Standards* (GJO 1). The graded approach provides a flexible, efficient, and effective means of controlling items and activities to assure that the required quality is achieved and is commensurate with the importance and risk of the activities. The importance assigned to an item or activity will determine the QA Program level (Standard or “Q”) assigned to that item or activity. Criterion 1 of the *GJO Quality Assurance Standards* (GJO 1) provides information on the “QA Program Levels” and “Graded Program Requirements”.

The Manager of Major Projects has assigned an overall quality level of *Standard* to the work scope associated with the Monticello LTSM Project. The GJO Quality Assurance Program *Standard Level* is a base quality assurance program that notifies personnel that the Standard QA requirements implemented throughout the company are applicable to this project.

Table 1 identifies the QA Criteria and Quality Assurance Instructions (QAIs) that apply to the overall LTSM Program, as specified in the LTSM Quality Assurance Program Plan (QAPP) (MAC-2152), and those that are specific to the scope of work established for the Monticello LTSM Project. The *Monticello Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1) and associated operating procedures listed below are referred to in the table that shows which criteria and/or QAI’s provide guidance to management or to the field activities associated with the project tasks. The requirements of the Criteria and QAI’s are discussed in Section III.

Administrative controls and associated planning to which the QA program applies are addressed in the *Monticello Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1). Volume references in the table correspond to the operating procedure manuals as follows:

- Volume I is the *LTSM Operating Procedures for the Monticello Mill Tailings Site Repository and Millsite (Vol. I)*, MAC-LMNT 1.1.1-1
- Volume II is the *LTSM Operating Procedures for Monticello Supplemental Standards Properties (Vol. II)*, MAC-LMNT 1.1.1-2
- Volume III will be the *LTSM Operating Procedures for the Monticello Surface- and Ground Water Project (Vol. III)*, MAC-LMNT 1.1.1-3
- Volume IV will be the *LTSM Operating Procedures for Annual Inspections and CERCLA 5-Year Reviews (Vol. IV)*, MAC-LMNT 1.1.1-4

Table 1. Applicable QA Requirements for the LTSM Program and Monticello LTSM Project

QA Criterion and QAI's	LTSM Program QAPP	Monticello LTSM Project QA Requirements (QAPjP)				
		Project Mgmt	Vol. I	Vol. II	Vol. III ¹	Vol. IV ¹
Criterion 1 QA Program	X	X				
QAI 1.1 QA Program Implementation	X	X				
QAI 1.2 Notification of Incoming Work	X	X				
QAI 1.3 Suspension of Activities	X	X	X	X	X	X
QAI 1.4 Develop./Approval of QA Program Plans	X	X				
QAI 1.5 Administrative and Technical Planning	X	X	X	X	X	X
QAI 1.6 QA Organizational Interfaces	X	X				
QAI 1.7 QA Review of Doc. that Impl. the QA Program.	X	X				
QAI 1.8 Work Readiness Reviews	X					
Criterion 2 Personnel Training & Qualification	X	X	X	X	X	X
QAI 2.1 -- Reserved --						
QAI 2.2 Certification of Personnel	X	X				
Criterion 3 Quality Improvement	X	X	X	X	X	X
QAI 3.1 -- Reserved --						
QAI 3.2 -- Reserved --						
QAI 3.3 Dissemination of Lessons Learned	X					
QAI 3.4 NCR Reporting, Disposition, & Closure	X	X	X	X	X	X
QAI 3.5 Corrective Action Request System	X					
Criterion 4 Documents and Records	X	X	X	X	X	X
Criterion 5 Work Processes	X	X	X	X	X	X
QAI 5.1 Prep. of Instructions, Procedures, & Drawings	X	X				
QAI 5.2 Control of Processes	X					
QAI 5.3 Test Control	X		X	X	X	
Criterion 6 Design	X					
QAI 6.1 QA Review of Design Input and Output Doc.	X					
QAI 6.2 Computer Program Software Testing ²	X					
QAI 6.3 Design of Data Collection Programs	X		X		X	X
Criterion 7 Procurement	X	X	X	X	X	
QAI 7.1 -- Reserved --						
QAI 7.2 Procurement-Related Nonconformances	X					
QAI 7.3 Supplier Selection	X					
QAI 7.4 Procurement Acceptance Planning	X					
Criterion 8 Inspection and Acceptance Testing	X	X	X	X	X	X
QAI 8.1 Acceptance Status Indicators						
QAI 8.2 Calibration System			X	X	X	
Criterion 9 Management Assessment	X	X				
QAI 9.1 -- Reserved --						
QAI 9.2 Management Performance Assessments	X	X				
QAI 9.3 Conformance Management System Reviews						
Criterion 10 Independent Assessment	X	X				
QAI 10.1 Performing & Reporting Independent Assessments	X					
QAI 10.2 Surveillances	X	X				
QAI 10.3 External Assessment Tracking and Response	X	X				

¹ Vol. III and IV QA elements are based on current and planned project inspections and reviews. The QAPjP will be reviewed as these documents are developed to ensure the appropriate QA requirements are identified and applied to the project tasks.

² "Q"-Level QA requirements apply to Computer Software elements.

End of Current Text.

II. Project Organization

DOE is the lead agency responsible for remedial actions at the Monticello Vicinity Properties (MVP) Site and the Monticello Mill Tailings Site (MMTS). These sites are located in and adjacent to the City of Monticello, in San Juan County, Utah. Both sites were on the National Priorities List until February 28, 2000 when the MVP Site was deleted from the list. DOE continues to conduct response actions at the MMTS pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA). In 1988, the U.S. Environmental Protection Agency (EPA), the State of Utah (State), and DOE entered into a Federal Facilities Agreement (FFA) that defines the roles and responsibilities of the parties for response actions at the two sites. As the lead agency, DOE provides principal staff and resources to plan and implement response actions pursuant to Section 120 of CERCLA/SARA. EPA and the State provide oversight of the response actions as described in the FFA. EPA has the ultimate decision making responsibility and authority, but shares its decision-making with the State.

DOE has established three projects with multiple operable units (OUs) for conducting response actions at the two sites:

MVP: Included private properties in and around the City of Monticello, consisting of seven OUs. On February 28, 2000, the EPA and State determined that response actions were implemented and no further response at the site was appropriate.

MMTS: includes two projects and three OUs.

- Monticello Remedial Action Project (MRAP) consists of two OUs:

- OU I – Includes tailings impoundment areas, the area where the mill operations were conducted, and the repository site.

- OU II – The Monticello Peripheral Properties project includes private and DOE- owned properties peripheral to the millsite.

Monticello Surface- and Ground-Water (MSG) Project

- OU III – Includes contaminated surface water and ground water on the former millsite and downgradient peripheral properties. Previously, OU III also contained peripheral properties with contaminated soil and sediments downstream of the millsite along Montezuma Creek. A response action for these contaminated soil and sediment properties was selected and documented in an Action Memorandum and the response action implemented. Subsequent to the clean-up which left contamination above the standards in 40 CFR 192.12 in place, the decision was made by DOE, EPA, and the State with public comment that the response action was the appropriate remedial action. This decision was documented in the Supplemental Standards Application and an Explanation of Significant Difference to the OU I and OU II Record of Decision. The Explanation of Significant Difference also documented transfer of the soil and sediment portion of the OU III Montezuma Creek peripheral properties to OU II.

At this time the MVP and MRAP OU I and II properties have been remediated to the codified standards, or as otherwise established through Supplemental Standards agreements, and the Repository construction has been completed, encapsulating the contaminated soils and sediments. The remedy for surface water and groundwater will be selected pursuant to the CERCLA process at the conclusion of an interim remedial action currently in progress. These actions lend the project to oversight and monitoring through the LSTM program with project management and responsibility retained by the Manager of Major Projects until such time as the projects are delisted in accordance with CERCLA/SARA protocol and FFA agreements.

DOE Management Structure

The DOE—GJO Manager maintains the authority, responsibility, and accountability for overall project implementation and contract administration. The DOE—GJO Manager assigns a DOE—GJO Project Manager (i.e., Project Coordinator as required by the FFA). The Project Manager is the DOE—GJO implementing official for the project and has been delegated the authority from the DOE—GJO Manager for day-to-day implementation, management, and direction of the project. The Project Coordinator is the formal GJO point of contact for the EPA, the State, and DOE Headquarters for Monticello Projects. Within the DOE—GJO staff the DOE—GJO Manager has also assigned matrix support for procurement, public affairs, health and safety, and environmental compliance to the Monticello Project.

The organizational structure and interfaces for the LTSM Program, the Contractor's organization, and the Monticello LTSM Project are shown in Section 7.0 of the *Monticello Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1).

III. Quality Assurance Program Requirements

The information provided in this section lists only the applicable QA Criteria, including QAI's, and provides modification or clarification to the requirements as necessary to meet project needs in an effective and efficient manner.

Criterion 1, Quality Assurance Program

The Standard Requirements of the Criterion and QAIs 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 and 1.7 apply.

QAI 1.1, QA Program Implementation – The Contractor LTSM Program Manager for the Monticello LTSM Project is responsible for establishing procedures and methods for accomplishing the work defined by the Task Orders in a manner that will meet or exceed customer requirements.

Project management actions associated with planning and budgeting will comply with the requirements established in *the MACTEC-ERS Project Management Control System* (MAC 1002) and company policy documented in *GAP Manual* (MAC-1000). The Contractor LTSM Program Manager may use these systems to suspend work due to funding constraints, direction from DOE, or regulatory concerns identified by the representatives of the State or EPA.

The LTSM QAPP identifies key personnel and responsibilities general to the DOE LTSM Program. Key personnel and responsibilities for the Monticello LTSM Project are identified in the task specific operating procedures.

QAI 1.2, Notification of Incoming Work – The Contractor LTSM Program Manager will notify the QA Manager of Task Order modifications affecting the scope of work for the Monticello LTSM Project. This information will be used to determine if revision of the QAPjP or other project documents is required.

QAI 1.3, Suspension of Activities – Personnel are responsible for suspending activities when conditions that jeopardize safety, the environment, or quality are identified. When significantly adverse conditions are identified and management response has not been initiated, or is ineffective, the Contractor LTSM Program Manager may order a suspension of activities following the guidance of QAI 1.3. The QA Manager may suspend activities if conditions affecting quality have not been addressed. Suspension of activities for subcontractors will be issued through the contractors Subcontract Administration. Justification must be thoroughly documented.

QAI 1.4, Development and Approval of QA Plans – The LTSM QA Lead is responsible for assisting the Contractor LTSM Program Manager with the preparation and maintenance of the LTSM QAPP. The Contractor LTSM Program Manager, assisted by the QA Lead, will be responsible for preparation and maintenance of this site specific QAPjP. The Contractor LTSM Program Manager and QA Manager will review the QAPjP. Approval of the

Contractor LTSM Program Manager is required. Records of review will be maintained in the QA files. When significant revisions are made reviews and approval will be at the same level as the original document.

QAI 1.5, Administrative and Technical Planning – The Contractor LTSM Program Manager is responsible for assigning the planning of project activities.

General requirements for planning documents are presented in this QAI. As appropriate, planning documents should address administrative, technical, safety, environmental, and quality assurance issues. The Contractor LTSM Program Manager is responsible for assigning responsibility for the preparation of site-specific planning documents. Project planning documents and revisions must be reviewed by the affected organizations, and comment resolution must be documented. The originator will maintain records of review for the current version.

In addition to the implementing manuals identified at the beginning of this document, primary planning documents for the Monticello LTSM Project include the following:

Program Planning Documents

- *Long-Term Surveillance and Maintenance Program Plan* (GJO-99-93-TAR) - defines the mission and objectives of the LTSM Program
- *Quality Assurance Program Plan (QAPP) for the Long-Term Surveillance and Maintenance Program* (MAC-2152) - defines the requirements of the GJO QA Program that apply to the DOE LTSM Program and all project sites unless modified by an implementing QAPjP.
- *Monticello Site Management Plan* (GJO-2001-199-TAR) – defines the overall plan for remedial actions at the Monticello Mill Tailings Site and the Monticello Vicinity Properties Site.

Site-Specific Planning Documents

Site-Specific Plans - Define site activity requirements and include property or project specific plans as appendices. The current and planned documents under this category include:

- *Monticello Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1)
- *Quality Assurance Project Plan for the Monticello Long-Term Surveillance and Maintenance Project* (MAC-2152.1). Appendix A of the *Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1) tailors the requirements of the QAPP (MAC-2152) for the LTSM Program to Monticello LTSM Project tasks.

- *Monticello LTSM Project Safety Plan* (MAC-LMNT 13.2-1). Defines safety and health policy and procedures for performing Long-term surveillance and maintenance activities at the Monticello LTSM Project.
- *LTSM Operating Procedures for the Monticello Mill Tailings Site Repository and Millsite, Volume I* (MAC-LMNT 1.1.1-1)
- *LTSM Operating Procedures for Monticello Supplemental Standards Properties, Volume II* (MAC-LMNT 1.1.1-2)
- *LTSM Operating Procedures for the Monticello Surface- and Ground Water Project, Volume III*, (MAC-LMNT 1.1.1-3)
- *LTSM Operating Procedures for Annual Inspections and CERCLA 5-Year Reviews, Volume IV*, (MAC-LMNT 1.1.1-4)

QAI 1.6, QA Organizational Interfaces – This QAI identifies requirements for establishing QA organizational interfaces and independent verification of activities affecting quality.

Personnel other than those responsible for performing the work perform the verification of quality. Individuals who have been identified as responsible for verification of quality shall be provided access to activities and the documentation supporting those activities.

Within the scope of work for the Monticello LTSM Project, procedures for annual review and oversight by the Contractor LTSM Program Manager have been established to meet this requirement. Additionally, back-up personnel are authorized as independent reviewers for routine inspection and surveillance activities. QA staff may also verify the achievement of quality through independent assessment activities.

QAI 1.7, QA Review of Documents that Implement the QA Program – Monticello LTSM planning documents and procedures implementing the QA program will be reviewed by the QA Lead in accordance with the guidance provided in this instruction.

Criterion 2, Personnel Training and Qualification

The Standard Requirements of this Criterion apply.

Training needs for personnel assigned to Monticello LTSM Project activities are identified in the operating procedures. As a minimum, personnel will be trained and qualified to ensure they are capable of performing their assigned work. As appropriate, continuing training must be provided to ensure job proficiency is maintained. The *GJO Training Manual* (GJO 4) provides information on company policy and training requirements associated with the technical procedures in the *GJO Environmental Procedures Catalog* (GJO 6).

Criterion 3, Quality Improvement

The Standard Requirements of this Criterion and QAI 3.4 apply.

The Standard Requirements of this Criterion apply to the inspection and maintenance tasks of the Monticello LTSM Project. Inspection checklists have been developed to detect and prevent quality problems. Operating procedures will be followed for performing surveillance and inspection tasks including identification of items, services and site conditions that do not meet established requirements and controls and corrective measures taken in accordance with the importance of the problem and work affected. Corrective measures should include identification of the causes of problems and actions to prevent recurrence.

Improvement processes utilized by personnel assigned to the Monticello LTSM Project include:

- Planning
- Nonconformance Reporting
- Tracking and Follow-up
- Independent Assessments
- Management Reviews

QAI 3.4, Nonconformance Reporting, Disposition, and Closure – The Monticello LTSM Project will use the Nonconformance report (NCR) system defined within this QAI. The QA Lead should be called on for advice or assistance in the evaluation of conditions and the subsequent treatment of identified nonconformances. Formal reporting is not required for nonconforming items discovered before delivery or transmittal to other organizations. These items will be documented and evaluated internally by the organization.

The QA Lead will contact the action parties for their assistance in evaluating the nonconforming condition to determine the required disposition. Dispositioning may include additional inspection, testing, or investigation. The QA Lead will assist the Contractor LTSM Program Manager with input and tracking the NCR status in the GJO central computerized Commitment Tracking and Management System (CTMS). Information about the CTMS is detailed in Appendix B in the *GJO Quality Assurance Standards* (GJO 1).

Criterion 4, Documents and Records

The Standard Requirements of this Criterion apply.

Control and distribution of project documents and procedures will be in accordance with company policy. Documentation and Records requirements specific to the surveillance and maintenance work performed for the Monticello LTSM Project are addressed in the *Monticello Long-Term Surveillance and Maintenance Administrative Manual* (MAC-LMNT 1.1.1) and the associated Operating Procedures (Vols. I, II, III and IV). Individual sections have been established in each volume to provide detailed instructions for “Recording Observations”, and “Records Management”. Additionally, individual procedures prescribe documentation requirements and records generated by that procedure.

Documents

Preparation, review, control, and distribution of manuals and planning documents will be in accordance with requirements established in Section 2.0, "Procedure and Planning Documents," Section 3.0, "Records Management Procedure," Subsection 11.2.3, "Records of Review," and Section 8.0, "Document Control" in the *GAP Manual* (MAC-1000).

Monticello LTSM Project documents used in performing work or that are subject to revision (plans, procedures, drawings) will be controlled to assure that current and correct documents are used by those doing the work. Control (through the use of assigned copy number) and distribution will be maintained in accordance with company policy in the *GAP Manual* (MAC-1000). Distribution lists will be maintained for the current version of such documents.

Reviews

The originator is responsible for ensuring that project documents are internally reviewed by appropriate persons from the affected organizations and for maintaining documented evidence of review as required by company policy. It is the reviewers' responsibility to provide written comments in his/her area of expertise in a timely manner. Review comments must be resolved by the author with the reviewer; if an impasse develops the issue shall be resolved by the next level of management.

Reviews that are external to the Contractor (i.e., DOE, EPA, State) will be documented and resolved in a timely manner. Documentation of reviews and resolution of regulator comments will be retained with the project file as specified by the working file index.

Records

Procedures for establishing, identifying, and managing and protecting records are defined in Section 3.0 of the *GAP Manual* (MAC-1000), "Records Management Procedures". This procedure applies to all records created or managed by project personnel. The "Records Management" procedure provides guidance for the management of documents and records from creation to final disposition. The guidance ensures that documents and records are created, used, maintained, and protected. Records are to be protected against damage, deterioration, and loss during their entire life cycle. Project records will be protected at the Intermediate—Level as defined in Section 3.0 of *GAP Manual* (MAC-1000).

The LTSM Working File Index guides the management of project records. The LTSM Working File Index provides direction for the records created and managed through the LTSM Program and includes Monticello LTSM Project records.

Criterion 5, Work Processes

The Standard Requirements of the Criterion and QAIs 5.1 and QAI 5.3 apply.

Work must be performed to established technical standards and administrative controls, using

approved instructions, procedures or other appropriate means. Project documents, applicable company manuals, and detailed instructions provided in each of the Monticello LTSM Operating Procedures manuals establish the technical standards and administrative controls for this work.

Items and equipment employed for the work must be identified and controlled to ensure their proper use and to prevent their damage, loss, or deterioration. As applicable, equipment used for process monitoring or data collection (e.g., radiological monitoring of excavations at Supplemental Standards locations) must be calibrated and maintained.

QAI 5.1, Preparation of Instructions, Procedures, and Drawings – The procedure manuals that implement the requirements of the QA Program intended for Monticello LTSM Project use are listed in this document under “List of Applicable Company Manuals”. Procedures written to control the work for the Monticello LTSM Project will comply with the *GAP Manual* (MAC-1000), which explains the company system for preparing, reviewing, revising and issuing procedures.

The *GJO Environmental Procedures Catalog* (GJO 6) contains administrative and technical procedures for a variety of tasks. These procedures may be adopted or modified for use on this project. Modifications must comply with the requirements of procedure GA-1(P), “Standard Practice for Preparing or Revising Procedures for the *GJO Environmental Procedures Catalog*” in the manual.

QAI 5.3, Test Control – The QAI is applicable to equipment standardization, operating checks, or other comparisons that are a part of measurement of site performance. Records of checks and/or standardization must be maintained as prescribed by project documents or procedures specific to the equipment.

Criterion 6, Design

The Standard requirements of this Criterion and QAI 6.3 apply

The Standard Requirements of this criterion are applicable. The collection of samples for evaluation and/or monitoring will be performed using the data collection design process described in this QAI to develop Sampling and Analysis Plans.

Criterion 7, Procurement

The Standard Requirements of this Criterion apply

The Standard Requirements of this Criterion are applicable to all Monticello LTSM procurement activities. Procurement documents for subcontracted services must ensure that appropriate quality and/or reporting requirements are included within those documents.

Criterion 8, Inspection and Acceptance Testing

The Standard Requirements of this Criterion and QAI 8.2 apply

The Standard Requirements of this Criterion are applicable to the Measuring and Test Equipment (M&TE) used in assessment, verification, or analysis to generate project data and inspections that verify conformance with specified requirements.

A list of M&TE and their assigned locations or custodians will be prepared to specifically identify those items that are within the calibration program. M&TE must be calibrated in accordance with the manufacturer's recommendations. Records will be maintained for each piece of equipment, which identifies schedules and procedures for calibrations. The record must include the procedure or instructions for performing the calibration, calibration data, relevant environmental conditions, traceability to the standard used, and person performing the calibration and the calibration date.

Inspections that verify and ensure conformance to specified requirements shall be planned, performed, and documented by written instructions, procedures, or checklists. Individuals other than those who performed the work must perform acceptance inspections. Final inspections must be documented and approved by authorized personnel. Re-inspection is required for any items modified, repaired, replaced, or reworked after final inspection.

Identification and control of items will be specified in instructions, procedures and drawings that control a specific task.

QAI 8.2, Calibration System– The DOE Representative for the Monticello LTSM Project is designated as custodians for project instrumentation. Custodians are accountable for project specific M&TE items and are responsible for the following:

- Assuring that M&TE have proper calibration labels and are within their calibration period. The custodians are also responsible for submitting M&TE and reference standards for calibration before retiring them from service (closeout calibrations).
- Requests for the purchase of M&TE, reference standards, and calibration services must be provided to the Instrument Calibration Laboratory for review to ensure that accuracy, uncertainty, traceability, and applicable calibration program standards are addressed in the procurement.
- Responding to Nonconformance Reports (NCRs) documenting instrumentation found out-of-tolerance to determine the effects on previously performed work.
- Maintaining and protecting instrumentation from damage or significant contamination.
- Performing and documenting routine functional tests and checks on instruments assigned to them. When the functional tests/checks indicate readings outside the acceptance range, the instrument will be appropriately tagged or segregated and taken out of service.

Criterion 9, Management Assessment

The Standard Requirements and QAI 9.2 apply

The Standard Requirements for performing and documenting Management Reviews applies to the administrative activities of the Manager of Major Projects. Management Assessments are applicable, through the QAPP, to the Contractor LTSM Program Manager.

QAI 9.2 Management Assessments – At the direction of the General Manager the Contractor LTSM Program Manager and/or the Manager of Major Projects will participate in or respond to (as appropriate) Management Assessments. The LTSM QA Lead will provide assistance and support to Management Assessments as requested. The LTSM QA Lead is responsible for entering the assessment results into the Commitment Tracking and Management System (CTMS), for maintaining follow-up tracking including status updates, and providing associated reports to management.

Criterion 10, Independent Assessment

The Standard Requirements of the Criterion and QAIs 10.2 and 10.3 apply.

QAI 10.2, Surveillances – Surveillance's will be performed by QA personnel, as necessary, to evaluate implementation of and compliance with project requirements. The results of the assessment will be entered into the CTMS for tracking status and closure.

QAI 10.3, External Audit/Appraisal Tracking – The Manager of Major Projects will interface with the Contractor LTSM Program Manager and QA Lead in responding to external assessments, preparing corrective action plans for any findings, completing corrective actions as scheduled, and attesting to completed corrective actions.

The QA Lead will assist the Contractor LTSM Program Manager by entering updates of assessment results into the CTMS. The QA Lead will also assist in tracking and reporting on corrective action progress, verifying completed actions, preparing Completion Certificates, and maintaining the external assessment record file.

Appendix B

**Information Repository for the U.S. Department of Energy
Monticello Mill Tailings Site/Monticello Vicinity Properties
Subject Index**

Information Repository
for the U.S. Department of Energy
Monticello Mill Tailings Site/Monticello Vicinity Properties
Monticello, Utah

Subject Index

Note: This Information Repository contains Monticello Mill Tailings Site Operable Units I, II and III and Monticello Vicinity Properties documents generated after completion of the MMTS OU I & II, MVP, and MMTS OU III Records of Decision. Documents leading up to the Record of Decision are located in the Monticello Mill Tailings Site/Monticello Vicinity Properties Administrative Record and in the MMTS OU III Administrative Record. In October 2004, OU III documents began to be integrated into the Information Repository collection of documents. Complete copies of the Administrative Records and the Information Repository are located at the U.S. Department of Energy, Grand Junction Office, 2597 B 3/4 Road, Grand Junction, Colorado, 81503, and the Monticello Field Office, 7031 S. Hwy. 191, Monticello, Utah 84535.

Numbers in **bold type** identify the file folder number assigned to document within the Information Repository. Unless noted otherwise, documents are located in this file. The locations of documents filed or stored elsewhere are identified in the index and/or file folder e.g. oversized documents. Entries that are **shaded** are new additions or revisions and those that are **in strikeout** have been superseded and removed. File Number **IR690** has been established for Program Directives. The last number used in this update is **IR712**.

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I. SUPERFUND LEGISLATION AND GUIDANCE

IR026

Reference: Comprehensive Environmental Response, Compensation, and Liability Act (Superfund), 1980.
42 U.S.C.A. Part 9601 et seq.
Type: Bound Volume

IR025

Reference: U.S. Environmental Protection Agency. 1990. Part II National Oil and Hazardous Substances Pollution Contingency Plan, Final Rule. 40 CFR Part 300.
Type: Bound Volume

II. MONTICELLO PROJECTS SITE INFORMATION

A. Record of Decision / Amendments

IR015

Reference: U.S. Department of Energy. 1989. Monticello Mill Tailings Site, Responsiveness Summary. Prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report (Response to Public Comments) (copy also exists in File no. **216**, Monticello Mill Tailings Site Administrative Record [Record of Decision], Appendix A).

IR014

Reference: U.S. Department of Energy. 1990. Monticello Mill Tailings Site, Declaration for the Record of Decision & Record of Decision Summary. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report (copy also exists in File no. **216**, Monticello Mill Tailings Site Administrative Record).

IR275

Reference: U.S. Department of Energy. 1995. Explanation of Significant Difference, U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Fact Sheet (copy also exists in File no. **216**, Monticello Mill Tailings Site Administrative Record).

IR492

Reference: U.S. Department of Energy Grand Junction Office, February 1999. Explanation of Significant Differences
Type: Fact Sheet

B. Administration and Project Plans

1. General Administration

IR1015

Letter dated January 14, 1992, from Tracy Plessinger, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, to Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency Region VIII.
Subject: Maintenance of the Monticello Information Repository and Administrative Record.

IR420

Letter dated May 14, 1998 from Max H. Dodson, Assistant Regional Administrator U.S. Environmental Protection Agency, Region VIII to John Arthur, Assistant Manager, Office of Environmental and Program Management, U.S. Department of Energy, Albuquerque Operations Office
Subject: Designation of Remedial Project Manager for the Monticello Vicinity Properties

2. Community Relations Plan

Please refer to Section IV.C – Community Relations Plans

3. Environmental Monitoring Plan

Please refer to Section II.D - Environmental Monitoring Reports

4. Groundwater Protection Management Plan

IR297

Reference: U.S. Department of Energy. November 1996. *Groundwater Protection Management Program Plan*, P-GJO-1244, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR707

Reference: State of Utah. 1999. *Ground-Water Management Policy for the Monticello Mill Tailings Site and Adjacent Area*. Department of Natural Resources, Division of Water Rights, Robert L. Morgan, P.E., State Engineer. May 21, 1999.

Type: Policy Document

5. Health and Safety Plan

IR363

Reference: U.S. Department of Energy. June 1997. *Monticello Projects Health and Safety Plan*, (MAC-MRAP 1.3.4), Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR446

Reference: Memorandum of Understanding Between San Juan County, Utah and the United States Department of Energy, dated August 1997.

Subject: To formalize an understanding of mutual cooperation and assistance between the Parties in providing fire protection, hazardous materials emergency response, and other emergency services.

IR447

Reference: Memorandum of Understanding Between San Juan County Sheriffs Department and the United States Department of Energy, dated August 1997.

Subject: To formalize an understanding of mutual cooperation and assistance between the Parties in providing law enforcement protection, emergency response and other law enforcement services.

IR448

Reference: Memorandum of Understanding Between San Juan County Hospital and the United States Department of Energy, dated August 1997.

Subject: To formalize an understanding of mutual cooperation and assistance between the Parties in providing treatment of injured personnel transported from the DOE Monticello Mill Tailings Site (MMTS) to San Juan County Hospital.

IR576

Reference: U.S. Department of Energy. August 2001. *Monticello Long-Term Surveillance and Maintenance Project Safety Plan*, Rev. 0, GJO-2001-231-TAR, (MAC-LMNT 13.2). (a) updated 10/16/03 to revise emergency information. Prepared by Stoller for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR587

Reference: U.S. Department of Energy. September 1998. *Monticello Projects Health and Safety Plan*, Rev. 2, (MAC-MRAP-1.3.4). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR588

Reference: U.S. Department of Energy. November 1999. *Monticello Project, Project Safety Plan*, Rev. 0, (MAC-1.3.4-1). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

6. Records Management Plan

IR217

Reference: U.S. Department of Energy. March 1996. *Monticello Program Records Management Plan*, Rev. 1, P-GJPO-910. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

7. Site Management Plan

IR298

Reference: U.S. Department of Energy. July 1998. *Monticello Site Management Plan*, Rev. 01, (MAC-MRAP 1.3.7). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR558

Reference: U.S. Department of Energy. October, 2000. *Monticello Site Management Plan* Rev. 03, (MAC-MRAP 1.3.7). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR566

Reference: U.S. Department of Energy. March, 2001. *Monticello Site Management Plan* Rev. 04, (MAC-MRAP 1.3.7). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR608

Reference: U.S. Department of Energy. September 2002. *Monticello Site Management Plan*, Rev. 05, (MAC-MRAP 1.3.7). Prepared by Stoller for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR693

Reference: U.S. Department of Energy. October 2003. *Monticello Site Management Plan*, Draft Final, Rev. 06, (GJO-2003-493-TAC). Prepared by Stoller for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.

Type: Report (includes annual updates to Section 5.0 Project Schedules and Milestones)

Location: Oversized document shelf

8. Waste Management Plan

IR187

Reference: U.S. Department of Energy. March 1997. *Monticello Remedial Action Project, Special Waste Management Plan for the Monticello Mill Tailings Site and Vicinity Properties, Final*, Revision 2, P-GJO-913. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado

Type: Report

C. Cultural Resource Investigations

IR012

Reference: Grand River Institute. July 1991. Cultural Resource Inventory Report on the Proposed Monticello Remedial Action Program, 1991 Archaeological Survey in San Juan County, Utah, for Chem-Nuclear Geotech, Declaration of Negative Findings, GRI Project No. 9129, July 20, 1991. Prepared by Grand River Institute for Chem-Nuclear Geotech, Inc. under contract to the U.S. Department of Energy.

Type: Report

IR013

Reference: Grand River Institute. October 1991. Cultural Resource Inventory Report on the Proposed Monticello Remedial Action Program, 1991 Archaeological Survey in San Juan County, Utah, for Chem-Nuclear Geotech Addendum, Declaration of Negative Findings, GRI Project No. 9129, October 10, 1991. Prepared by Grand River Institute for Chem-Nuclear Geotech, Inc. under contract to the U.S. Department of Energy.

Type: Report

IR300

Letter dated August 3, 1995, from James L. Dykmann, Compliance Archaeologist, Utah State Historical Society, to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Dept. of Energy.

Subject: Determinations of National Register of Historic Places Eligibility for Six Archaeological Sites Associated with Haul Road and Repository Construction at the Monticello Mill Tailing Site, San Juan County, Utah.

IR301

Letter dated June 6, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Dept. of Energy, to Mr. James Dykmann, Division of State History, Utah State Historical Society.

Subject: Transmittal of Technical Cultural Resources Report to the State of Utah.

IR338

E-mail dated October 19, 1996, from Danni Langdon, MACTEC-ERS to Debbie Richardson and Michael Butherus, MACTEC-ERS.

Subject: Annual inspection of prehistoric and historical sites in Montezuma Creek Canyon

IR364

E-mail dated September 18, 1997, from Danni Langdon, MACTEC-ERS to Michael Butherus, MACTEC-ERS and FY96 Archaeological Activities Questionnaire

Subject: Annual inspection of prehistoric and historical sites in Montezuma Creek Canyon

D. Environmental Monitoring Reports**IR295**

Reference: U.S. Department of Energy. May 1990. *Environmental Monitoring Report on the U.S. Department of Energy's Inactive Millsite Facility, Monticello, Utah, for Calendar Year 1989*. Prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **521**.

IR278

Reference: U.S. Department of Energy. May 1991. *Monticello Millsite Environmental Report for Calendar Year 1990*, DOE/ID/12584-87. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **522**

IR063

Reference: U.S. Department of Energy. May 1992. *Monticello Millsite Environmental Report for Calendar Year 1991*, DOE/ID/12584-103, GJPO-ES-5. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report (copy also exists in Operable Unit III Administrative Record File no. **523**).

IR081

Reference: U.S. Department of Energy. May 1993. *Monticello Mill Tailings Site Environmental Report for Calendar Year 1992*, DOE/ID/12584-136, GJPO-ES-7. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report (copy also exists in Operable Unit III Administrative Record File no. **524**).

IR129

Reference: U.S. Department of Energy. May 1994. *Monticello Mill Tailings Site Environmental Report for Calendar Year 1993*, DOE/ID/12584-171. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **525**.

IR207

Reference: U.S. Department of Energy. May 1995. *Monticello Mill Tailings Site, Environmental Report for Calendar Year 1994*, DOE/ID/12584-217. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **526**

IR302

Letter, dated May 2, 1997, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office, to David Bird, State of Utah Department of Environmental Quality, Division of Environmental Response and Remediation.

Subject: Submission of the Monticello Mill Tailings Site Environmental Air Monitoring Sampling and Analysis Plan

IR303

Reference: U.S. Department of Energy. August 1996. *Monticello Mill Tailings Site, Environmental Summary for Calendar Year 1995*, DOE/ID/12584-269, GJPO-ES-18. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record. File no. **536**

IR312

Reference: US Department of Energy. September 1997. *Monticello Mill Tailings Site, Environmental Air Monitoring Sampling and Analysis Plan*. (MAC-MRAP 1.3.13-1). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR365

Reference: U.S. Department of Energy. November 1997. *Monticello Mill Tailings Site, Environmental Summary for Calendar Year 1996*, MRAP 9.12.3.5-1. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **590**

IR340

Letter, dated May 9, 1997, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office, to David Bird, State of Utah Department of Environmental Quality, Division of Environmental Response and Remediation.

Subject: Response to Comments Received for Monticello Mill Tailings Site Environmental Summary for Calendar Year 1995

IR549

Letter dated March 3, 2000 from Joel D Berwick, Monticello Project Engineer, U.S. DOE GJO to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Air Monitoring Data

IR612

Reference: U.S. Department of Energy. October 1998. *Monticello Mill Tailings Site, Environmental Report for Calendar Year 1997*, GJO-98-61-TAR. Prepared by MACTEC-ERS. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record, File no. **645**

IR613

Reference: U.S. Department of Energy. October 1999. *Monticello Mill Tailings Site, Environmental Report for Calendar Year 1998*, GJO-99-115-TAR. Prepared by MACTEC-ERS. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record, File no. **646**

IR614

Reference: U.S. Department of Energy. October 2000. *Monticello Mill Tailings Site, Environmental Report for Calendar Year 1999*, GJO-2000-160-TAR (MAC-MRAP 9.12.3.5-1). Prepared by MACTEC-ERS. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record, File no. **647**

IR615

Reference: U.S. Department of Energy. October 2001. *Monticello Mill Tailings Site, Environmental Report for Calendar Year 2000*, GJO-2001-260-TAR (MAC-MRAP 9.12.3.5-1). Prepared by MACTEC-ERS. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report (last report prepared due to completion of surface remedial activities and closure of the MMTS repository)

Location: Operable Unit III Administrative Record, File no. **648**

IR672

Reference: 2001 *Revegetation Monitoring of the Monticello, Utah Repository Cover (including A Comparison of Data 2000 & 2001)*. Prepared by Mt. Nebo Scientific, Inc. for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, revised January 2003.

Type: Report

IR673

Reference: U.S. Department of Energy. September 2003. *Long-Term Surveillance and Maintenance Program 2002 Revegetation Monitoring of the Monticello, Utah Repository Cover* (GJO-2003-428-TAC). Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR708

Subject: U.S. Department of Energy. April 2005. *Monitoring Repository Seeding, April 2005 Trip Report*. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.

Type: Trip Report

E. Documents Related to Monticello Projects**IR108**

Reference: U.S. Environmental Protection Agency. 1990. Administrative Record File for Montgomery Wards Store in Monticello, Utah, Case #U83785, SSID #26.

Type: EPA Administrative Record File

IR109

Reference: U.S. Environmental Protection Agency. 1993. Administrative Record File for Randall Site in Monticello, Utah, Case #U84143, SSID #33.

Type: EPA Administrative Record File

IR406

Reference: US Dept. of Energy's Accelerating Cleanup: Paths to Closure, Albuquerque Operations Office (AL Paths to Closure). June 1998.

Type: Report

IR430

Reference: April 1998 Federal Facility Meeting Minutes

Type: Report

IR444

Reference: July 1998 Federal Facility Meeting Minutes

Type: Report

IR484

Reference: November 1998 Federal Facility Meeting Minutes

Type: Report

IR431

Reference: Federal Facilities Agreement (FFA) Monthly Progress Reports, March through August 1998

Type: Report

IR477

Reference: Monticello FFA 1998 Monthly Progress Report for September through December 1998

Type: Report

IR483

Reference: Monticello FFA 1999 Monthly Progress Report for January through March 1999

Type: Report

IR493

Reference: February 1999 Federal Facility Meeting Minutes

Type: Report

IR503

Reference: May 1999 Federal Facility Meeting Minutes

Type: Report

IR504

Reference: Federal Facilities Agreement (FFA) Monthly Progress Report, May 1999

Type: Report

IR516

Reference: Monticello FFA 1999 Monthly Progress Report for June 1999

Type: Report

IR520

Reference: Monticello FFA 1999 Monthly Progress Report for July 1999

Type: Report

IR521

Reference: Monticello FFA 1999 Monthly Progress Report for August 1999

Type: Report

IR522

Reference: Monticello FFA 1999 Monthly Progress Report for September 1999

Type: Report

IR532

Reference: Monticello FFA 1999 Monthly Progress Report for October 1999

Type: Report

IR533

Reference: Monticello FFA 1999 Monthly Progress Report for November 1999

Type: Report

IR534

Reference: Monticello FFA 1999 Monthly Progress Report for December 1999

Type: Report

IR544

Reference: Monticello FFA 2000 Monthly Progress Report for January 2000

Type: Report

IR545

Reference: Monticello FFA 2000 Monthly Progress Report for February 2000

Type: Report

IR546

Reference: Monticello FFA 2000 Monthly Progress Report for March 2000

Type: Report

IR547

Reference: Monticello FFA 2000 Monthly Progress Report for April 2000

Type: Report

IR548

Reference: February 2000 Monticello FFA Meeting Minutes

Type: Report

IR550

Reference: Monticello FFA 2000 Monthly Progress Report for May 2000

Type: Report

IR553

Reference: Monticello FFA 2000 Monthly Progress Report for June 2000

Type: Report

IR554

Reference: Monticello FFA 2000 Monthly Progress Report for July 2000

Type: Report

IR560

Reference: Monticello FFA 2000 Monthly Progress Report for September 2000

Type: Report

IR561

Reference: Monticello FFA 2000 Monthly Progress Report for October 2000

Type: Report

IR563

Reference: Monticello FFA 2000 Monthly Progress Report for November 2000

Type: Report

IR564

Reference: Monticello FFA 2000 Monthly Progress Report for December 2000

Type: Report

IR568

Reference: Monticello FFA 2001 Monthly Progress Report for January 2001

Type: Report

IR569

Reference: Monticello FFA 2001 Monthly Progress Report for February 2001

Type: Report

IR572

Reference: Monticello FFA 2001 Monthly Progress Report for March 2001

Type: Report

IR577

Reference: Monticello FFA 2001 Monthly Progress Report for April 2001

Type: Report

IR578

Reference: Monticello FFA 2001 Monthly Progress Report for May 2001

Type: Report

IR579

Reference: Monticello FFA 2001 Monthly Progress Report for June 2001

Type: Report

IR580

Reference: Monticello FFA 2001 Monthly Progress Report for July 2001

Type: Report

IR581

Reference: Monticello FFA 2001 Monthly Progress Report for August 2001

Type: Report

IR582

Reference: Monticello FFA 2001 Monthly Progress Report for September 2001

Type: Report

IR584

Reference: Monticello FFA 2001 Monthly Progress Report for October and November 2001

Type: Report

IR593

Reference: Monticello FFA 2002 Monthly Progress Report for December 2001 through January 2002

Type: Report

IR594

Reference: Monticello FFA 2002 Monthly Progress Report for February through April 2002

Type: Report

IR595

Reference: Monticello FFA 2002 Monthly Progress Report for May through June 2002

Type: Report

IR596

Reference: Monticello FFA 2002 Monthly Progress Report for July through August 2002

Type: Report

IR609

Reference: Monticello FFA 2002 Monthly Progress Report for September through October 2002

Type: Report

IR610

Reference: Monticello FFA 2002 Monthly Progress Report for November through December 2002

Type: Report

IR616

Reference: Monticello FFA 2003 Monthly Progress Report for January through February 2003

Type: Report

IR636

Reference: Monticello Projects Federal Facility Agreement Report for March/April 2003

Type: Report

IR657

Reference: Monticello Projects Federal Facility Agreement Report for May/June 2003

Type: Report

IR658

Reference: Monticello Projects Federal Facility Agreement Report for July/August 2003

Type: Report

IR659

Reference: Monticello Projects Federal Facility Agreement Report for September/October 2003

Type: Report

IR674

Reference: Monticello Projects Federal Facility Agreement Report for November/December 2003

Type: Report

IR678

Reference: Monticello Projects Federal Facility Agreement Report for January/February 2004

Type: Report

IR680

Reference: Monticello Projects Federal Facility Agreement Report for March/April 2004

Type: Report

IR683

Reference: Monticello Projects Federal Facility Agreement Report for May/June 2004

Type: Report

IR686

Reference: Monticello Projects Federal Facility Agreement Report for July/August 2004

Type: Report

IR689

Reference: U.S. Environmental Protection Agency. September, 2004. *Preliminary Closeout Report, Monticello Mill Tailings (USDOE) Site, Operable Units I, II and III.*

Type: Report

IR695

Reference: Monticello Projects Federal Facility Agreement Report for September/October 2004

Type: Report

IR696

Reference: Monticello Projects Federal Facility Agreement Report for November/December 2004

Type: Report

IR702

Reference: Monticello Projects Federal Facility Agreement Report for January/February 2005

Type: Report

IR705

Reference: Monticello Projects Federal Facility Agreement Report for March/April 2005

Type: Report

IR706

Reference: Monticello Projects Federal Facility Agreement Report for May/June 2005

Type: Report

III. REMEDIAL ACTION

A. Site-Wide Documents

1. Endangered Species and Wetlands Protection

IR1021

Letter dated July 31, 1995, from Mary Ann Rondinella, U.S. Department of Energy Grand Junction Projects Office to Paul Mushovic, U.S. Environmental Protection Agency and David Bird, State of Utah, Department of Environmental Quality.

Subject: Results of the Endangered Species Survey.

IR555

Reference: U.S. Department of Energy. July 1995. *Status of Monticello Vicinity and Peripheral Properties With the Potential to Have Wetland Areas*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado. (Note: Figures and Plates for this document are stored in the DOE-GJO records reference MRAP09.08.01 document number 22278) Correspondence includes Rust Geotech internal memorandum, DOE transmittal 1995 Report and EPA Region VIII and State of Utah UDEQ authorization to proceed
Type: Report and related correspondence

IR304

Letter dated October 17, 1995, from Brent Northrup, Area Manager, Bureau of Land Management, to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Authorization to harvest riparian plant materials from BLM lands.

IR305

Memorandum dated February 26, 1996, from Joel Berwick, Monticello Site Engineer, U.S. Department of Energy, to Wanda Busby, Manager, Monticello Programs, Rust Geotech Inc.

Subject: EPA Comments on the Monticello Wetlands Master Plan

IR306

Letter dated March 19, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, to Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.

Subject: Final Copies of Monticello Wetlands Master Plan.

IR286

Reference: U.S. Department of Energy. March 1996. *Monticello Wetlands Master Plan*, P-GJPO-926. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado. (Includes Addendum dated January 10, 2000.)

Type: Report

Location: Oversized document shelf

IR307

Letter dated May 16, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, to Robert D. Williams, Assistant Field Supervisor, U.S. Fish and Wildlife Service, Utah Field Office.

Subject: Determination of No Effects to Threatened and Endangered Species.

IR296

Reference: U.S. Department of Energy. December 1996. *Monticello Remedial Action Project First Annual Monitoring Report for Monticello Wetlands*, GJO-96-12-TAR (GJO-MRAP-35). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR551

Reference: U.S. Department of Energy. January 1998. *1997 Monitoring Report for Monticello Wetlands*, GJO-98-38-TAR (GJO-MRAP-47). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR419

Letter dated April 26, 1998 from Terry L. Terrell, Deputy Regional Director, U.S. Department of the Interior, Fish and Wildlife Service, Mountain-Prairie Region to Jack Tillman, Manger, U.S. Department of Energy, Grand Junction Office
Subject: Final Biological Opinion for Impacts to Federally Listed Endangered Species

IR413

Reference: U.S. Department of Energy. February 1998. *Biological Assessment of Monticello Mill Tailings Site Remedial Activities*, GJO-97-36-TAR (GJO-MRAP-45). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado
Type: Report

IR474

Reference: U.S. Department of Energy. December 1998. *Monitoring Report for Monticello Wetlands*, GJO-98-74-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR486

Letter dated January 15, 1999, from Mary Ann Rondinella, Environmental Specialist, U.S. Department of Energy, to Kelly Gonzales, U.S. Fish and Wildlife Service, Migratory Bird Permits, Denver Federal Center.
Subject: Response to request for information concerning annual records of take (or other activity) of species regulated under the Migratory Bird Treaty Act (MBTA) and Bald and Golden Eagle Protection Act (BGEPA).

IR540

Reference: U.S. Department of Energy. February 2000. *1999 Monitoring Report for Monticello Wetlands*, GJO-2000-141-TAR (GJO-MRAP 9.8.4). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR565

Reference: U.S. Department of Energy. January 2001. *2000 Monitoring Report for Monticello Wetlands*, GJO-2000-189-TAR (MRAP 9.8.4). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR606

Reference: U.S. Department of Energy. January 2002. *2001 Monitoring Report for Monticello Wetlands*, GJO-2002-293-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Report

IR617

Reference: U.S. Department of Energy. February 2003. *2002 Monitoring Report for Monticello Wetlands*, GJO-2003-414-TAC. Prepared by the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Report

IR676

Reference: U.S. Department of Energy. February 2004. *2003 Monitoring Report for Monticello Wetlands*, GJO-2004-547-TAC. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado
Type: Report

IR703

Reference: U.S. Department of Energy. February 2005. *Final Results of Wetland Restoration and Monitoring at the Monticello Mill Tailing Site and Monticello Vicinity Properties*, DOE-LM/GJ819-2005. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado
Type: Report

2. Five-year Reviews, Annual Inspections, and Field Audits

IR308

Letter dated June 14, 1996, from Paul S. Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, to Ms. Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office.

Subject: EPA and UDEQ Field Audit of Activities at the Monticello NPL Sites - June 24, 1996 through June 27, 1996.

IR309

Letter dated April 26, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, to Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.

Subject: Transmittal of the Five-Year CERCLA Reviews for the Monticello Mill Tailings Site and the Monticello Vicinity Properties Site (copy of the review is included).

IR310

Letter dated August 14, 1996, from J. Mario Robles, Regional Project Manager, U.S. Environmental Protection Agency, Region VIII, Monticello Vicinity Properties Site, to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Comments on the Five-Year CERCLA Reviews for the Monticello Mill Tailings NPL Site and the Monticello Vicinity Properties NPL site

IR366

Subject: Five-Year CERCLA Reviews (Type Ia) for the Monticello Mill Tailings NPL Site and the Monticello Vicinity Properties NPL site, U.S. Environmental Protection Agency, Region VIII, Hazardous Waste Management Division

Type: Report

IR585

Subject: U.S. Department of Energy. December 2001. *2001 Annual Inspection of the Monticello Mill Tailings Site and Monticello Vicinity Properties Site*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR601

Reference: U.S. Department of Energy. April 2002, *Long-Term Surveillance and Maintenance Operating Procedures for Annual Inspections and CERCLA Five-Year Reviews*, Volume 4, GJO-2001-222-TAR (MAC-LMNT 1.1.1-4).

Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR607

Reference: U.S. Department of Energy. June 2002. *Five-Year Review Report, Second Five-Year Review Report for Monticello Radioactively Contaminated Properties, Monticello, Utah, San Juan County, Utah*, GJO-2002-336-TAR.

Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR665

Subject: U.S. Department of Energy. December 2002. *2002 Annual Inspection of the Monticello Mill Tailings (USDOE) and Monticello Radioactively Contaminated Properties Sites*. Prepared by Stoller for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR667

Subject: U.S. Department of Energy. November 2003. Trip report for the *2003 Annual Inspection of the Monticello Mill Tailings and Monticello Radioactively Contaminated Properties Sites*. Prepared by Stoller for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.

Type: Report

IR694

Subject: U.S. Department of Energy. October 2004. *2004 Annual Inspection of the Monticello Mill Tailings (USDOE) and Monticello Radioactively Contaminated Properties Sites*. Prepared by Stoller for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.
Type: Report

3. Supplemental Standards**IR311**

Reference: U.S. Department of Energy. 1995. Briefing Paper - Monticello Supplemental Standards, U.S. Department of Energy Grand Junction Projects Office, December 6, 1995.
Type: Briefing Paper

IR573

Letter dated May 14, 1996, from Cooper H. Wayman, Senior Legal Counsel, U.S. Department of Energy, to Paul Mushovic, U.S. Environmental Protection Agency, Denver, Colorado and David Bird, Utah Department of Environmental Quality, Salt Lake City, Utah.
Subject: Scanning of Footprints for Future Home Sites-Monticello, Utah.

IR424

Reference: U.S. Department of Energy. July 1998. *Monticello Mill Tailings Site and Monticello Vicinity Properties General Radiological Risk Assessment Methods*, GJO-96-9-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado
Type: Report
Location: Oversized document shelf

IR423

Reference: U.S. Department of Energy. July 1998. *Monticello Vicinity Properties Project Sampling and Analysis Plan, Property MS-00685-CS; Development of the Derived Contamination Level Standard, Property MS-00685-CS; Sampling and Survey Report, Property MS-00685-CS*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado
Type: Report(s) (3 separate documents)
Location: Oversized document shelf

IR517

Reference: U.S. Department of Energy. September 1998. *Application for Supplemental Standards for Upper, Middle and Lower Montezuma Creek*, GJO-9-58-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR511

Reference: U.S. Department of Energy. May 1999. *General Radiological Risk Assessment Methods*, GJO-96-9-TAR, (GJO-MRAP-34). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR512

Reference: U.S. Department of Energy. May 1999. *Application for Supplemental Standards for Highways 191 and 666 Rights-of-Way Within the City Limits of Monticello*, GJO-96-8-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR513

Reference: U.S. Department of Energy. May 1999. *Application for Supplemental Standards for DOE ID No. MS-00176-VL*, GJO-96-4-TAR (GJO-MRAP-29). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR514

Reference: U.S. Department of Energy. May 1999. *Application for Supplemental Standards for City of Monticello Streets and Utilities*. GJO-98-68-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR515

Reference: U.S. Department of Energy. May 1999. *Application for Supplemental Standards for Government-Owned Properties in Monticello Utah, DOE ID Nos. MP-00391-VL, MP-01041-VL, and MP-01077-VL*, GJO-98-66-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR620

Reference: U. S. Department of Energy. August 1999. Memorandum of Understanding between the U. S. Department of Energy, and the Utah Department of Transportation (UDOT) to describe the roles and responsibilities the signatory agencies assume in the long-term management of radiologically contaminated material within the right-of-way and embankment areas (Attachment 1) of Utah State Highways 191 and 666 within the Monticello city limits.

Type: Memorandum of Understanding

IR570

Reference: U.S. Department of Energy. April 2002. *Long-Term Surveillance and Maintenance Operating Procedures for Monticello Mill Tailings site Repository and Millsite*, Volume I, GJO-2001-201-TAR (MAC-LMNT 1.1.1-1). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR574

Reference: U.S. Department of Energy. April 2002. *Long-Term Surveillance and Maintenance Operating Procedures for Monticello Supplemental Standards Properties*, Volume II, GJO-2001-223-TAR (MAC-LMNT 1.1.1-2). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR575

Reference: U.S. Department of Energy. April 2002. *Long-Term Surveillance and Maintenance Administrative Manual*, GJO-2001-224-TAR (MAC-LMNT 1.1.1). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR621

Letter dated April 16, 2003 from Mr. Art Kleinrath, Program Manager, U. S. Department of Energy, Grand Junction Office to Mr. Daryl Friant, Environmental Engineer, Utah Department of Transportation

Subject: Deed Annotations. UDOT informed of the completion of deed annotations for four properties owned by UDOT and located in the Highway 191 right-of-ways in the Monticello, Utah city limits. (Reference IR620)

4. Technical Coordination

IR1010

Letter dated June 4, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc., to Joseph Virgona, Monticello Project Manager, DOE GJPO.

Subject: Meeting Summary from the May 28, 1991, MRAP Project Coordinators Meeting.

IR011

Reference: Meeting Summary, MRAP Project Technical Exchange Meeting, May 28, 1991.

Type: Report

IR019

Letter dated June 29, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc., to Joseph Virgona, Monticello Project Manager, DOE GJPO; with meeting summary;
Subject: MRAP Project Technical Exchange Meeting, June 24-25, 1991.

B. Monticello Mill Tailings Site Operable Unit I**1. Millsite Remediation****IR008**

Reference: U.S. Department of Energy. 1991. *Statement of Work, Monticello Remedial Action Project, Mill Site Characterization Study*, GJPO-MRAP-5. Prepared by Chem-Nuclear Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR669

Reference: *Revised Final Report Monticello Remedial Action Project 1991 Millsite Characterization Study*, Volumes 1 and 2, February 4, 1992. Prepared by Dames & Moore under contract to Chem-Nuclear Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR016

Reference: U.S. Department of Energy. 1991. *Statement of Work for the Monticello Mill Tailings Site, Well Abandonment Plan*, P-GJPO-128. Prepared by Chem-Nuclear Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR1014

Letter dated December 31, 1991 from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc. to Tracy Plessinger, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office.
Subject: Transmittal of the Final Remedial Design Work Plan for the Monticello Mill Tailings Site.

IR032

Reference: U.S. Department of Energy. 1992. *Final Remedial Design Work Plan for the Monticello Mill Tailings Site*, P-GJPO-122. Prepared by Chem-Nuclear Geotech for the U.S. Dept. of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report

IR045

Letter dated September 18, 1992, from Harry A. Perry, D and D Program Manager, Chem-Nuclear Geotech, Inc., to Tracy B. Plessinger, U.S. Department of Energy, Grand Junction Projects Office.
Subject: Letter to U.S. Forest Service to Sample Talus Slopes for a Suitable Source of RIPRAP for Erosion Control at the Monticello Millsite.

IR046

Letter with attached permit application dated October 15, 1992, from Tracy B. Plessinger, Project Manager, U.S. Department of Energy, Grand Junction Projects Office, to Lee Bennett, District Ranger, U.S. Forest Service, Manti-La Sal National Forest;
Subject: Request for Access to Sample Talus Rock in the Manti-La Sal National Forest.

IR044

Reference: U.S. Department of Energy. September 1992. *Phase I for Operable Unit I Millsite Preparation: Final Secondary-Level Design Report*, Rev. 1, P-GJPO-901. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR082

Reference: U.S. Department of Energy. August 1993. *Monticello Remedial Action Project Phase II A for Operable Unit I Mill Site Pre-Excavation Final Design Report*, GJO- MRAP-7. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR668

Reference: U.S. Department of Energy. March 1994. *Monticello Mill Tailings Site Operable Unit I Alternatives Analysis Data Summary Report*, DOE/ID/12584-176 (GJPO-MRAP-9). Prepared by RUST Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR179

Reference: U.S. Department of Energy. 1994. *The Monticello Mill Tailings Asbestos Inspection Report*, GJPO-MRAP-11. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR368

Reference: U.S. Department of Energy. November 1997. *The Monticello Mill Tailings Asbestos Management Plan*, MRAP 9.20.5.5. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR341

Letter dated July 31, 1995, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, to Mr. Mark Page, Regional Engineer, State of Utah Natural Resources, Division of Water Rights.

Subject: Concurrence on Appropriation of Water for a Water Supply Well and use for Dust Control on the Monticello Mill Tailings Site

IR206a

Reference: U.S. Department of Energy. August 1995. *Draft Final Monticello Remedial Action Project, Operable Unit I, Remedial Action Work Plan*, (P-GJPO-921). Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR206b

Reference: U.S. Department of Energy, 1995. DOE Responses to EPA comments on the Monticello Remedial Action Project Operable Unit I, Remedial Design/Remedial Action Work Plan.

Type: Report

IR313

Reference: U.S. Department of Energy. October 1995. *Monticello Remedial Action Project Operable Unit I, Millsite Remediation, Construction Quality Assurance Plan*, Rev. 0, P-GJPO-123.3. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR314

Reference: U.S. Department of Energy. November 1995. *Draft Interim Waste Management Area Operating Plan & Procedures*, Rev. 2, (P-GJPO-924). Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR345

Letter dated June 20, 1997, from Mary Ann Rondinella, Project Manager, U.S. Department of Energy Grand Junction Office, to David Bird, State of Utah Department of Environmental Quality, Division of Environmental Response and Remediation, and Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII.
Subject: Submission of Survey Plat for the Expansion of Interim Waste Management Area of the Monticello, Utah, Site.

IR346

Letter dated July 14, 1997, from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office, to Keith Rose, U.S. Fish and Wildlife Service, and Ronette Reisenburg, U.S. Fish and Wildlife Service.

Subject: Consultation with USFWS regarding possible southwestern willow flycatcher habitat within the Monticello Mill Tailings Site Construction Area, Monticello, Utah

IR397

Reference: Department of Energy. June 1998. *Monticello Remedial Action Project Radiological Sampling and Verification Procedures for OUI*, (MAC-MRAP 1.3.12). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office Grand Junction, Colorado.

Type: Manual

Location: Oversized document shelf

IR415

Letter dated February 26, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Neil B. Taylor, Environmental Scientist, Utah Department of Environmental Response and Remediation, State Emergency Response Commission Submission of Utah

Subject: Tier Two

Emergency and Hazardous Chemical Inventory Report

IR408

Letter dated April 22, 1998 from Joel D Berwick, Monticello Project Engineer, US DOE GJO to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Updates to General Construction Specifications. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado

Type: Report

IR399

Letter dated May 5, 1998 from Wayne J. Evelo Jr., Monticello Site Engineer, U.S. Department of Energy Grand Junction Office to Larry Larkin, Manager, Asbestos Division, State of Utah Department of Environmental Quality

Subject: Transmittal of Notification of Demolition and Disposal of Asbestos Contaminated and Potentially Contaminated Material at the MM Tailings Site

IR443

Letter dated September 29, 1998 from David Bird, State of Utah Department of Environmental Quality to Paul Mushovic, Environmental Protection Agency, Region VIII

Subject: Proposed Abandonment of Well 06NW89-029 received March 6, 1998

IR426

Reference: Program Directive Number MRAP 98-01 Field Sampling

Type: Subcontractor Document

IR583

Reference: U.S. Department of Energy. February 1998. *Biological Assessment of Monticello Mill Tailings site Remedial Activities*, GJO-97-36-TAR (GJO-MRAP-45). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado

Type: Report

2. Wastewater Treatment

IR254

Letter dated March 17, 1995, from Dale W. Christian, U.S. Department of Energy, to Ty Howard, Utah Division of Environmental Response and Remediation, and Mario Robles, Environmental Protection Agency.

Subject: Monticello Pond Water Discharge

IR255

Letter dated March 28, 1995, from Mary Ann Rondinella, U.S. Department of Energy, to Paul Mushovic, Regional Manager, Environmental Protection Agency, and Ty Howard, State of Utah, Division of Environmental Response and Remediation.

Subject: Clarification of Monticello Pond Water Discharge Letter

Attachment: Plan for Sampling Ponds 2 and 3

IR256

Letter dated March 30, 1995, from Mary Ann Rondinella, U.S. Department of Energy, to Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, and Ty Howard, State of Utah, Division of Environmental Response and Remediation.

Subject: Transmittal of "Raw" Data from March 16 and 17, 1995, Pond Sampling Effort.

IR257

Letter dated March 31, 1995, from Mary Ann Rondinella, U.S. Department of Energy, to Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, and Ty Howard, State of Utah, Division of Environmental Response and Remediation.

Subject: Additional Surface Water Preliminary Analytical Results

IR258

Letter dated April 11, 1995, from Mary Ann Rondinella, U.S. Department of Energy to Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, and Ty Howard, State of Utah, Division of Environmental Response and Remediation.

Subject: Transmittal of the Validated Data for the Pond Water Characterization Effort Conducted March 16 and 17, 1995.

IR259

Letter dated May 8, 1995, from Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency, to Mary Ann Rondinella, U.S. Department of Energy.

Subject: Notice of Assessment of and Demand for Stipulated Penalties Pursuant to the Federal Facility Agreement, In the Matter of the United States Department of Energy, Monticello Site.

IR260

Letter dated May 24, 1995, from Mary Ann Rondinella, U.S. Department of Energy to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.

Subject: Invocation of Dispute Resolution

IR262

Letter dated June 2, 1995, from Mary Ann Rondinella, U.S. Department of Energy, to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.

Subject: Notice of Assessment and Demand for Stipulated Penalties

IR263

Letter dated June 30, 1995, from Mary Ann Rondinella, U.S. Department of Energy to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.

Subject: Notice of Assessment of and Demand for Stipulated Penalties Pursuant to the Federal Facility Agreement.

IR264

Letter dated July 10, 1995, from Robert L. Duprey, Director, Hazardous Waste Management Division, Environmental Protection Agency, to John Arthur, U.S. Department of Energy, Albuquerque Operations Office, Mary Ann Rondinella, U.S. Department of Energy, Grand Junction, James Lampley, U.S. Department of Energy Grand Junction, Ron Kowalewski, U.S. Department of Energy, Office of Southwest Area Programs, and Brad Johnson, Manager, CERCLA Branch, Utah Division of Environmental Quality.

Subject: U. S. Department of Energy, Monticello Site-Dispute Resolution; Notice of Delegation of Membership on the Dispute Resolution Committee

IR265

Letter dated July 27, 1995, from Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency, to John Arthur, U.S. Department of Energy, Albuquerque Operations Office.

Subject: U.S. Department of Energy, Monticello (Utah) Site-Dispute Resolution.

IR266

Letter dated July 28, 1995, from John Arthur, U.S. Department of Energy, Albuquerque Operations Office, to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.
Subject: Reference the U.S. EPA letter to U.S. Department of Energy, Monticello Site-Dispute Resolution, dated July 27, 1995.

IR267

Letter dated August 24, 1995, from Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency, to John Arthur, U.S. Department of Energy, Albuquerque Operations Office.
Subject: U.S. Department of Energy, Monticello (Utah) Site-Dispute Resolution.

IR268

Letter dated October 23, 1995, from Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency, to John Arthur, U.S. Department of Energy, Albuquerque Operations Office (with attached Draft Settlement Agreement).
Subject: U.S. Department of Energy, Monticello (Utah) Site-Dispute Resolution.

IR269

Letter dated November 9, 1995, from John Arthur, U.S. Department of Energy, Albuquerque Operations Office, to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.
Subject: Supplemental Environmental Project, Monticello, Utah, Site.

IR315

Letter dated December 1, 1995, from Mary Ann Rondinella, Monticello Projects Coordinator, U.S. Department of Energy, to David Bird, Utah Department of Environmental Quality, Environment Response and Remediation.
Subject: Request for exclusion at the Utah Administrative Code R315-2-2(e)(1)(ii); and Position Paper for the Management of Spent Hydrochloric Acid Solution Generated by the Wastewater Treatment Plant at Monticello.

IR270

Letter dated December 29, 1995, from Mary Ann Rondinella, U.S. Department of Energy to Paul Mushovic, Remedial Project Manager, Environmental Protection Agency.
Subject: Draft of Paragraph 10, Cost of Corrective Actions Taken at The Monticello Mill Tailings Site to Control Contaminated Water.

IR273

Letter dated March 20, 1996, from Keith R. Landholt, Attorney, Office of Chief Counsel, U.S. Department of Energy, Albuquerque Operations Office, to Elizabeth Wald, U.S. Environmental Protection Agency, Office of Legal Enforcement.
Subject: Draft of Monticello Supplemental Environmental Project Settlement Agreement

IR274

Letter dated April 24, 1996, from John Arthur, U.S. Department of Energy, Albuquerque Operations Office to Louis W. Johnson, Chief Federal Facilities Branch, Environmental Protection Agency.
Subject: Supplemental Environmental Project, Monticello, Utah Site.

IR348

Letter dated June 5, 1996, from Robert L. Morgan, P.E., State Engineer, State of Utah Department of Natural Resources, Division of Water Rights, to the U.S. Department of Energy, Grand Junction Projects Office.
Subject: Approved Application Number 09-1898 (Pond 3)

IR411

Reference: U.S. Department of Energy. March 1998. *Sampling and Analysis Plan (SAP) for the Monticello Remedial Action Project (OU I), Wastewater Treatment Plant* (MAC-MRAP 4.6.11.2). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado
Type: Report

IR411a

Reference: U.S. Department of Energy. December 1998. *Sampling and Analysis Plan (SAP) for the Monticello Remedial Action Project (OU I), Wastewater Treatment Plant*, Revision 02, (MAC-MRAP 4.6.11.2-2). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado

Type: Report

Location: Oversized document shelf

IR416

Letter dated March 6, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Modification of the Wastewater Treatment Plant (WWTP) at the Monticello Millsite

IR403

Letter dated March 8, 1998, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Use of Pond 4 Water for Dust Control

IR435

Letter dated March 19, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Use of the DOE-GJO Laboratory for UPDES Analytical Work at the Monticello Mill Tailings Site

IR404

Letter dated April 10, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Revised Data Table for the Monticello Wastewater Treatment Plant

IR409

Letter dated April 14, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Surface Water Sent to Montezuma Creek

IR405

Letter dated May 8, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: WWTP Discharge Rates for UPDES Permit Revision

IR410

Letter dated May 12, 1998 from Wayne J. Evelo Jr., Monticello Site Engineer, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Use of Pond 4 Water for Dust Control on Contaminated Areas of the Millsite

IR414

Letter dated May 13, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant: April

IR427

Letter dated May 18, 1998 from David Bird, Monticello Project Manager, State of Utah, Division of Environmental Response and Remediation to Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, Region VIII

Subject: Final Repository and Pond 4 Groundwater Contingency Plan received February 12, 1998 and Outlines for Proposed Monticello Mill Tailings Site Umbrella, Repository and Pond 4 LTSM Plans received March 16, 1998

IR407

Letter dated June 29, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant: May

IR437

Letter dated July 17, 1998 from David Bird, Monticello Project Manager, State of Utah, Division of Environmental Response and Remediation to Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office Quality
Subject: Monticello Mill Tailings Site Wastewater Treatment Plant effluent limitations

IR439

Letter dated July 24, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to David Bird, Monticello Project Manager, State of Utah, Division of Environmental Response and Remediation
Subject: In Stream Standards That Will Be Met in Monticello Waste Water Treatment Plant (WWTP) Effluent

IR396

Letter Dated September 17, 1998, from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to David Bird, Monticello Project Manager, State of Utah, Division of Environmental Response and Remediation
Subject: Five-Day Report Required by R317-8-4.1(12)(f) for Discharge of Water Exceeding UPDES Limitations

IR436

Reference: Transmittal of the UPDES Data for the Monticello Wastewater Treatment Plant and Decision to Discharge to Montezuma Creek
Type: Subcontractor Document

IR454

Letter dated August 13, 1998 from Wayne Evelo Jr., Monticello OUI Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Monticello Mill Tailings Site Recirculation Pond

IR455

Letter dated September 4, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Transmittal of the July UPDES Data for the Monticello Wastewater Treatment Plant

IR460

Letter dated October 9, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Analytical Results from the South On-Site Ditch Discharge and Montezuma Creek Receiving Water (with enclosure)

IR462

Letter dated October 16, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Pumping Groundwater from Areas Verified Clean to Montezuma Creek

IR464

Letter dated October 19, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Transmittal of August UPDES Data for the Monticello Wastewater Treatment Plant.

IR465

Letter dated October 20, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Proposal to Place Brine in Pond 3 (with enclosure)

IR466

Letter dated October 21, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Characterization of Sludge and Brine from the Monticello Wastewater Treatment Plant (with enclosures)

IR470

Letter dated November 12, 1998 from Wayne Evelo Jr., Monticello OU-I Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Request for Concurrence on Proposal to Place Brine in New Ponds. (with enclosure)

IR472

Letter dated November 18, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant (October)

IR489

Letter dated March 3, 1999 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant (November)

IR490

Letter dated February 16, 1999 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant (December)

IR491

Letter dated March 30, 1999 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant (January and February)

IR502

Letter dated May 28, 1999 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Transmittal of UPDES Data for the Monticello Wastewater Treatment Plant (April and May, Final Report)

IR476

Letter dated December 29, 1998 from Wayne Evelo Jr., Monticello OU-I Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Brine Pipeline to Repository Brine Pond (with map enclosure EO433900)

IR499

Letter dated April 13, 1999 from Joel Berwick, Monticello OUI Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah
Department of Environmental Quality
Subject: Closure of Monticello Interim Waste Management Area

IR500

Letter dated April 6, 1999 from David Bird, State of Utah Department of Environmental Quality, to Ray Plieness, Monticello Project Team Leader
Subject: Monticello Mill Tailings Site, Site Inspections of March 17th and 18th, 1999

IR507

Letter dated June 24, 1999 from Raymond M. Plieness, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Transmittal of Analytical Data on the Monticello Millsite Carbonate Pile Lake

IR536

Reference: Radon Flux Measurements at the Monticello Disposal Cell, November 1999
Type: Report

3. Millsite Restoration

IR701

Reference: U.S. Department of Energy, Office of Inspector General, Office of Audit Operations. Audit Report with enclosed memorandum dated October 28, 2004, from Gregory H. Friedman, Inspector General, U.S. Department of Energy, to the Inspector General, U.S. Department of Energy.
Subject: Audit Report on "Restoration of the Monticello Mill Site at Monticello, Utah, DOE/IG-0665, October 2004.

a. Correspondence

IR638

Letter dated April 29, 1999, from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy, to Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.
Subject: Transmittal of Intermediate Design – Monticello Millsite Restoration (w/o enclosure)

IR639

Letter dated June 29, 1999, from Barbara E. Smith, Contracting Officer, U.S. Department of Energy Grand Junction Office, to Mr. Dale Black, Mayor, City of Monticello.
Subject: Transmittal for signature consisting of 3 copies of Cooperative Agreement DE-FC13-99GJ79485 for the Monticello Millsite Restoration, Damage to City Streets, and Supplemental Standards for City Streets and Utilities

IR640

Letter dated August 2, 1999, from Joel Berwick, Project Manager, U.S. Department of Energy, to Mr. Trent Schafer, Monticello City Manager.
Subject: Revised Design Drawings for Monticello Millsite Restoration Design

IR641

Reference: U.S. Department of Energy Notice of Financial Assistance Award. August 4, 1999. Cooperative Agreement, DE-FC13-99GJ79485, between the U.S. Department of Energy and the City of Monticello. Project Title: City of Monticello Street Repair, Supplemental Standards and Millsite Restoration.
Type: Cooperative Agreement

IR641a

Reference: U.S. Department of Energy Notice of Financial Assistance Award. September 20, 1999. Amendment A001 to Cooperative Agreement DE-FC13-99GJ79485 between the U.S. Department of Energy and the City of Monticello to increase funding provided to the recipient for the current budget year.
Type: Cooperative Agreement (amendment)

IR641b

Reference: U.S. Department of Energy Notice of Financial Assistance Award. October 27, 1999. Amendment M002 to Cooperative Agreement DE-FC13-99GJ79485 between the U.S. Department of Energy and the City of Monticello for additional work scope to include design and construction specifications to be prepared by the city for the restoration of the mill site.
Type: Cooperative Agreement (amendment)

IR642

Reference: City of Monticello and U.S. Department of Energy, Grand Junction Office, *Project Management Plan*.
August 17, 1999 for performing mill site restoration work.
Type: Report

IR643

Letter dated March 17, 2000 from Joel D. Berwick, Monticello Site Engineer, U.S. Department of Energy, to Mr. Frank Protiva, P.E., Shephard-Wesnitzer, Inc.
Subject: Comments to the Monticello Millsite Restoration Design (includes general comments w/o enclosures)

IR644

Letter dated April 14, 2000, from Donna Bergman-Tabbert, Manager, U.S. Department of Energy, Grand Junction Office, to Mr. Dale Black, Mayor, City of Monticello.
Subject: Project Management of the Monticello Millsite Restoration

IR645

Letter dated May 17, 2000, from Donna Bergman-Tabbert, Manager, U.S. Department of Energy Grand Junction Office, to Mr. Terry L. Anderson, Director, Federal Facilities Program, U. S. Environmental Protection Agency, Region 8. Three enclosures attached (1) request for action by the City and (2) schedule for completion of Monticello Millsite Bid Packages, and (3) Program of Utilization – DOE Monticello Mill Tailings Site (U.S. Dept. of Interior – NPS)
Subject: Letter of Warning Concerning Failure to Meet Stipulated Penalty Milestones for Monticello NPL Sites

IR646

Letter dated August 24, 2000 from, to Mr. Frank Protiva, P.E., Shephard-Wesnitzer, Inc. to Mr. Rick Hurworth, Delhur Industries, Inc.
Subject: Notice to Proceed with Mobilization and Site Preparation Work

IR647

Transmittal cover sheet dated September 14, 2000 from Mr. Irwin I. Stewart, Project Manager, MACTEC-ERS, to Mr. Pat Heyneman, Delhur Industries, Inc.
Subject: S00-0502, Letter of Transmittal for Montezuma Creek Restoration-Storm Water Pollution Prevention Plan (SWPPP) Rev 2, Traffic Control and Dust Abatement, and Site Safety and Health Plan. (w/o attachments)

IR648

Transmittal cover sheet dated September 27, 2000 from Mr. Irwin I. Stewart, Project Manager, MACTEC-ERS, to Mr. Rick Hurworth, Delhur Industries, Inc.
Subject: Transmittal of a letter from the State of Utah to the Department of Energy Regarding Revisions to the Storm Water Pollution Prevention Plan. (letter attached)

IR649

Reference: U.S. Department of Energy Grand Junction Office. July 2001. *Restoration of the Monticello Millsite*, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Fact Sheet

IR650

Letter dated July 19, 2001, from Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII to Mr. Joel Berwick, Monticello Project Manager, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Monticello Millsite Restoration Milestone (July 17, 2001).

IR651

Letter dated August 17, 2001, from Donna Bergman-Tabbert, Manager, U.S. Department of Energy, Grand Junction Office, to Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.
Subject: Monticello Millsite Restoration Milestone – Request for extension due to significant events of nature.

IR652

Letter dated August 27, 2001, from Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII to Donna Bergman-Tabbert, Manager, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Monticello Millsite Restoration Milestone – Response to request for extension due to significant events of nature.

IR653

Letter dated September 6, 2001 from Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, to Mr. Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Subject: Monticello Millsite and Haul Road Restoration Milestone – completed August 30, 2001. Punch list items provided for closure by September 18, 2001.

IR654

Letter dated October 17, 2002, from Raymond Plienness, Deputy Manager, U.S. Department of Energy Grand Junction Office, to Mr. Trent Schafer, Manager, City of Monticello.

Subject: City to manage, maintain, and use the property as they committed as long as each agreement is met in its entirety. Two attachments (1) U.S. Department of Interior – National Park Service letter dated October 7, 2002 and (2) City Of Monticello letter dated October 8, 2002.

b. Studies, Designs, Work Plans, and Statements of Work**IR369**

Reference: U.S. Department of Energy. August 1996. *Draft Final Monticello Remedial Action Project, Operable Unit I, Millsite Restoration Conceptual Design*, DOE/ID/12584-270, GJPO-MRAP-26. Prepared by MACTEC-ERS for the U.S. Department of Energy Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

4. Repository, Haul Road, and Traffic Issues**IR001**

Reference: Goodknight, C., and Werle, B. November 1990. *Surface Geologic Characterization of the Near and Far South Sites, Monticello Remedial Action Project*, DOE/ID/12584-81. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR1002

Letter dated January 3, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, to Joseph Virgona, Monticello Project Manager, U.S. Department of Energy.

Subject: Monticello Remedial Action Project Surface Geologic Report.

IR1018

Letter dated October 18, 1993, from James S. Shumway, Mayor of Blanding; Lou Mueller, Council Member; Don W. Palmer, Council Member; Norman L. Johnson, Administrator; Wayne E. Palmer, Council Member; Stan Perkins, Council Member; James K. Slavens, Council Member; to Mr. Donald N. Leske, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Increased Truck Traffic

IR1017

Letter dated October 5, 1993, from Jack N. Young, Mayor of Monticello, to Donald N. Leske, U.S. Department of Energy, Grand Junction Projects Office;

Subject: Traffic Regulations for Trucks

IR111

Reference: U.S. Department of Energy. November 1993. *Monticello Remedial Action Project Alternatives Analysis, Off-Site Ideal Hydrologic Site Final Report*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR128

Reference: CAG Associates. August 1994. *Engineering Analysis and Risk Assessment for Proposed Haul Roads Supporting the Monticello (Utah) Mill Tailings Remedial Action Project*. Amended to Include 1993 Accident Data and New Haul Scenarios prepared for Rust Geotech Inc.

Type: Report

IR271

Letter dated December 29, 1995, from Cheryl A. Thompson, Contracting Officer, U.S. Department of Energy, to Rick M. Bailey, Director San Juan Emergency Services, Office of Emergency Management, P.O. Box 9, Monticello, Utah, 84535-0009.

Subject: Acquisition of an Emergency Response Vehicle

IR272

Letter dated December 29, 1995, from J. Royce Barton, President, Rocky Mountain Ambulance Sales and Service, Inc. to Rick M. Bailey.

Subject: Rescue Truck Proposal.

IR349

Letter dated June 27, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, to Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.

Subject: Discharge of Pond 4 Water

IR316

Telefax dated May 1, 1996, from Paul S. Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, to Ms. Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy.

Subject: Repository Haul Road Corridor - Wetland Mitigation.

IR317

Letter dated May 17, 1996, from Wanda S. Busby, Manager, Monticello Programs, Rust Geotech Inc. to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Wetland Mitigation Plan for Additional Disturbance along the Monticello Repository Haul Road Corridor.

IR319

Letter dated August 23, 1996, from David G. Bird, Monticello Project Manager, Division of Environmental Response and Remediation, State of Utah, to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy.

Subject: Draft-Final Repository and Pond 4 Groundwater Contingency Plan.

IR318

Reference: U.S. Department of Energy. Revised May 1997. *Monticello Remedial Action Project, Operable Unit I Millsite Remediation, Repository and Pond 4 Groundwater Contingency Plan, Draft Final, (MRAP 3.5.8)*. Prepared by MACTEC ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: ~~Oversized document shelf~~ Superseded by **IR666**

IR666

Reference: U.S. Department of Energy. February 1998. *Monticello Remedial Action Project, Operable Unit I Millsite Remediation, Repository and Pond 4 Groundwater Contingency Plan, Final, (MRAP 3.5.8)*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf (replaces **IR 318**)

IR432

Letter dated March 10, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Response to Request for Additional Information Related to Operation of a Contaminated Haul Road

IR428

Letter dated March 16, 1998 from Paul Mushovic, Environmental Protection Agency, Region VIII to Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office EPA and State of Utah Department of Environmental Quality (UDEQ)

Subject: Review of the DOE Request to Allow Operation of a Contaminated Haul Road

IR398

Letter dated April 15, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Parking for Haul Trucks Above SW Corner of Repository

IR417

Letter dated May 18, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Proposal to Reduce Haul Road Scanning Frequency

IR402

Letter dated June 14, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Characterization of Effluent from the Leachate Collection and Removal System (LCRS) to Pond 4

IR401

Letter dated June 22, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Elimination of Three Thick MVP/PP Tailings Material Beneath Radon Barrier in Monticello, Utah, OU I Repository

IR418

Letter dated July 6, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Metals Data from the Haul Road

IR434

Letter dated July 11, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Characterization of Effluent from the Leachate Collection and Removal System (LCRS) to Pond 4

IR400

Letter dated July 13, 1998 from Mark Page, Regional Engineer, Division of Water Rights, State of Utah to Raymond M. Plieness, Monticello Project Coordinator, US Department of Energy Grand Junction Office
Subject: Temporary Change Application Number t22375 (09-1422) Dust Suppression on Haul Roads/16 miles Southeast of Monticello Expiration Date: June 26, 1999

IR344

Application dated July 16, 1998 from the US Department of Energy to the State of Utah, Department of Natural Resources, Division of Water Rights. Receipt No. 98-01696.
Subject: Change of Water Right No. 09-1422, Application (t22375) to temporarily impound water along South Creek for dust suppression on the Haul Road and OU III removal actions.

IR459

Letter dated October 6, 1998 from Raymond M. Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Proposal to Further Reduce Haul Road Scanning Frequency

IR468

Letter dated October 30, 1998 from Wayne Evelo Jr., Monticello OU-I Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Petroleum Contaminated Soil to be Covered and Left in Place

IR467

Letter dated October 29, 1998 from David Bird, State of Utah Department of Environmental Quality, to Raymond M. Plienness, Remedial Project Coordinator, U.S. Department of Energy Grand Junction Office
Subject: Monticello Millsite Repository Construction Inspection of October 14, 1998

IR469

Letter dated November 5, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Analytical Data for Leachate Collection and Removal System (with enclosure)

IR471

Letter dated November 12, 1998 from Terry Anderson, Director Federal Facilities Program, Environmental Protection Agency, Region VIII, to Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office
Subject: Work Stoppage Order on Placement of MVP and MPP Top Layer Material Not Meeting the Specifications of Construction Specifications Engineering Document Number E0292600

IR497

Letter dated April 8, 1999 from Raymond M. Plienness, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Transmittal of RADON Modeling Results on Cover Performance Using Actual Soil Property Data.

IR498

Letter dated April 12, 1999 from Raymond M. Plienness, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Use of East Pile Excavation for Temporary Storage of Haul Road Storm Water Runoff

IR501

Letter dated April 15, 1999 from Joel Berwick, Monticello OUI Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Water Management Issues - Monticello Remedial Action Project

IR506

Letter dated April 12, 1999 from Raymond M. Plienness, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Radon Flux Measurements - Monticello Repository

IR508

Letter dated June 21, 1999 from Joel Berwick, Monticello OUI Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Proposal to Allow Surface Runoff to Montezuma Creek – Revised

IR519

Reference: U.S. Department of Energy Grand Junction Office. August 1999. *Composite Cover System for the Monticello Millsite Repository*.
Type: Fact Sheet

IR538

Reference: U.S. Department of Energy Grand Junction Office. January 2000. *Monticello Radioactive Contaminated Properties Site Delisting Process*
Type: Fact Sheet

IR542

Reference: U.S. Department of Energy Grand Junction Office, June 2000. *U.S. Department of Energy Proposes to Transfer Former Monticello Mill Tailings Site to the City of Monticello, Utah*
Type: Fact Sheet

IR556

Reference: U.S. Department of Energy. February 2000. *Final Geosynthetic Construction Report for Pond 4 and the Repository Liner Systems, Monticello Remedial Action Project, Monticello Utah*, Volumes I and II. Prepared by Montgomery Watson for MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR557

Reference: U.S. Department of Energy. February 2000. *Addenda to the Final Geosynthetic Construction Report for Pond 4 and the Repository Liner Systems, Monticello Remedial Action Project, Monticello Utah*. Prepared by TerraMatrix, Montgomery Watson, and MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado. (Includes 7 addenda prepared between February 19, 1998 and July 19, 2000.)
Type: Report
Location: Oversized document shelf

IR672

Reference: S.M. Stoller Corporation. January 2001 revised. *2001 Revegetation Monitoring of the Monticello, Utah, Repository Cover, Including a Comparison of 2000 and 2001 Data. Mt. NEBO Scientific Inc.*, Prepared by TerraMatrix, Montgomery Watson, and MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado. (Includes 7 addenda prepared between February 19, 1998 and July 19, 2000.)
Type: Report

IR671

Reference: Waugh, W.J. February 2002. *Monticello Field Lysimetry: Design and Monitoring of an Alternative Cover*. Waste Management 2002 Conference, February 24–28, 2002, Tucson, Arizona.
Type: Technical Paper

IR677

Subject: U.S. Department of Energy. February 2004. *2003 Revegetation Monitoring of the Monticello, Utah, Repository Cover*, GJO-2004-576-TAC. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.
Type: Report

IR704

Subject: U.S. Department of Energy. January 2005. *2004 Revegetation Monitoring of the Monticello, Utah, Repository Cover*, DOE-LM/GJ789. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.
Type: Report

5. Engineering Designs and Construction Drawings

IR320

Reference: U.S. Department of Energy. July 1995. *Monticello Remedial Action Project Operable Unit I Millsite Remediation Final Design*, Volumes I and II, (GJPO-MRAP-23). Prepared by Rust Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Report
Location: Oversized document shelf

IR202

Reference: U.S. Department of Energy, Final Design Drawings for MP-00893 Phase I
Type: Construction Drawings

IR204

Reference: U.S. Department of Energy As-Built Drawings for MP-00893 Phase I
Type: Construction Drawings

IR203

Reference: U.S. Department of Energy, Final Design Drawings for MP-00893 Phase IIA

Type: Construction Drawings

IR681

Reference: U.S. Department of Energy, Construction As-Built Drawing for the Monticello Repository Base Liner System (Repository Liner Details E0140400-ASB.DWG pg 9 of 48)

Type: Construction Drawings

IR682

Reference: U.S. Department of Energy, Construction As-Built Drawing for the Monticello Repository Cover System (E0141001-ASB.DWG pg 16 of 48)

Type: Construction Drawings

6. Subcontractor Field Question Forms and Directives

IR350

Reference: FQFs and Directives from July 1, 1996 to September 30, 1996.

Type: Subcontractor Correspondence

IR351

Reference: FQFs and Directives from October 1, 1996 to December 31, 1996.

Type: Subcontractor Correspondence

IR352

Reference: FQFs and Directives from January 1, 1997 to March 31, 1997.

Type: Subcontractor Correspondence

IR353

Reference: FQFs and Directives from April 31, 1997 to June 30, 1997.

Type: Subcontractor Correspondence

IR370

Reference: FQFs and Directives from July 1, 1997 to September 30, 1997.

Type: Subcontractor Correspondence

IR371

Reference: FQFs and Directives from October 1, 1997 to December 31, 1997.

Type: Subcontractor Correspondence

IR393

Reference: FQFs and Directives from January 1, 1998 to March 31, 1998.

Type: Subcontractor Correspondence

IR438

Reference: FQFs and Directives from April 1 to September 30, 1998

Type: Subcontractor Correspondence

IR478

Reference: FQFs and Directives from October 1, 1998 to December 31, 1999

Type: Subcontractor Correspondence

IR481

Reference: FQFs and Directives from January 1, 1999 to March 31, 1999

Type: Subcontractor Correspondence

IR495

Reference: FQFs and Directives from April 1, 1999 to July 31, 1999

Type: Subcontractor Correspondence

IR510

Reference: FQFs and Directives from August 1, 1999 to November 30, 1999

Type: Subcontractor Correspondence

IR531

Reference: FQFs and Directives from December 1, 1999 to February 10, 2000

Type: Subcontractor Correspondence

IR543

Reference: FQFs and Directives from February 11, 2000 to June 30, 2000

Type: Subcontractor Correspondence

IR449

Reference: FQFs and Directives from July 1, 2000 to September 30, 2000

Type: Subcontractor Correspondence

7. Property Status Information

IR688

Reference: U.S. Department of Energy. August 2004. *Remedial Action Report for Monticello Mill Tailings (USDOE) Site Repository. Includes Operable Unit I Properties MP-01040-VL (South Portion) and MP-01080-VL*, DOE-LM/GJ673-2004. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado.

Type: Report

Attachment: "Property Certification Summary and Recommendation Summary Evaluation"

C. Monticello Mill Tailings Site Operable Unit II

1. Peripheral Properties (OUII) Remediation

IR080

Reference: U.S. Department of Energy. March 1993. *Work Plan for the Bureau of Land Management Compound Characterization Monticello Mill Tailing Site*, P-GJPO-129. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR110

Reference: U.S. Department of Energy. September 1993. *Draft Final Characterization Work Plan for Peripheral Properties MP-00105-VL, Phase II, and MP-00391-VL, Phase I, Monticello Mill Tailings Site*, P-GJPO-905. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Dept. of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR085

Reference: U.S. Department of Energy. November 1993. *Draft Final Sampling and Analysis Plan for Regulated Waste Characterization of Bureau of Land Management Compound Peripheral Property MP-00181-OT, Phase I, Monticello Mill Tailings Site*, P-GJPO-129.1. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR215

Reference: U.S. Department of Energy. July 1995. *Site Characterization Report for the Bureau of Land Management Compound, Monticello Peripheral Property MP-00181-OT, Phase I*, GJPO-MRAP-19. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR216

Reference: U.S. Department of Energy. November 1995. *Underground Storage Tank Closure Data Notice*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report (with attachments)

IR230

Reference: U.S. Department of Energy. February 1995. *Characterization and Summary Report for the Unknown Liquid Contents of a One-Gallon Bottle Found in the Building 2 Crawl Space at the BLM Compound (MP-00181-OT, Phase I)*. Prepared by Rust Geotech Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR229

Reference: U.S. Department of Energy. August 1995. *Sampling and Analysis Plan for Monticello Peripheral Properties MP-00181-OT Phases IV and IVA, and MP-00211-VL, Phases I & II, P-GJPO-918*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR205

Reference: U.S. Department of Energy. March 1995. *Monticello Remedial Action Project, Operable Unit II, Remedial Design/Remedial Action Work Plan, P-GJPO-915*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR321

Reference: U.S. Department of Energy. July 1995. *Monticello Vicinity Property Project Site Assessment Report for Sutherland Brothers, Inc., Property (MP-00990-CS), GJPO-MRAP-22*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR322

Reference: U.S. Department of Energy. March 1995. *Prompt Alpha-Track Study for Monticello, Utah, Vicinity and Peripheral Properties*, DOE/ID/12584-210, (GJPO-RL-4). Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR323

Letter dated January 8, 1996, from Kent P. Gray, Executive Secretary (UST), Utah Solid and Hazardous Waste Control Board, to Mr. Joel Berwick, U.S. Department of Energy, Monticello Project Office.

Subject: Release Site EJCI, U.S. Department of Energy, Bureau of Land Management, Monticello, Utah Facility Identification No. 5000199. [Property 181 Ph. IV]

IR324

Letter dated May 31, 1996, from Robert D. Williams, Assistant Field Supervisor, U.S. Department of the Interior, Fish and Wildlife Service, to Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy.

Subject: Remediation of Operable Unit II, Monticello Mill Tailings Site.

IR228

Reference: U.S. Department of Energy. January 1996. *Site Characterization Report for Monticello Peripheral Properties MP-00181-OT, Phases IV and IVA, and MP-00211-VL, Phases I and II, GJPO-MRAP-24*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

R214

Reference: U.S. Department of Energy. February 1996. *Sampling and Analysis Plan for Monticello Peripheral Property Sutherland Brothers, Inc. (MP-00990-CS), P-GJPO-922*. Prepared by Rust Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR214a

Reference: U.S. Department of Energy. June 1996. *Monticello Remedial Action Project, Addendum to the Sampling and Analysis Plan for Monticello Peripheral Property Sutherland Brothers, Inc., (MP-00990-CS)*. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Addendum to Report

IR456

Letter dated September 10, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Request for Schedule Extension Per Section XXXII of the Monticello Site Federal Facilities Agreement (with enclosure).

IR485

Letter dated February 16, 1999 from Raymond Plieness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Request for Schedule Extension Per Section XXXII of the Monticello Site Federal Facilities Agreement.

2. Engineering Designs and Construction Drawings**IR198**

Reference: U.S. Department of Energy Design Drawings for MP-00105-VL Phase I, MP-00886-VL, MP-00887-VL, and MP-00888-VL

Type: Drawings

IR225

Reference: U.S. Department of Energy, Design Drawings for MP-00105-VL Phase II and MP-00391-VL Phase II

Type: Construction Drawings

IR190

Reference: U.S. Department of Energy Design Drawings for MP-00178-VL Phase I and MP-00198-VL

Type: Construction Drawings

IR192

Reference: U.S. Department of Energy Design Drawings for MP-00178-RS Phase II and MP-00963-OT Phase II

Type: Construction Drawings

IR195

Reference: U.S. Department of Energy Design Drawings for MP-00179-VL Phase IA Type: Construction Drawings

Type: Construction Drawings

IR196

Reference: U.S. Department of Energy Design Drawings for MP-00179-VL Phase II and MP-00947-VL

Type: Construction Drawings

IR193

Reference: U.S. Dept. of Energy Design Drawings for MP-00180-CS and MP-00845-VL

Type: Construction Drawings

IR199

Reference: U.S. Department of Energy Design Drawings for MP-00181-OT Phase IA

Type: Construction Drawings

IR200

Reference: U.S. Department of Energy Design Drawings for MP-00181-OT Phase III

Type: Construction Drawings

IR201

Reference: U.S. Department of Energy Design Drawings for MP-00181-OT Underground Storage Tank Removal

Type: Construction Drawings

IR325

Reference: U.S. Department of Energy Design Drawings for MP-00181-OT Phase IVA, MP-00211 Phase I and MP-00887-VL Phase II

Type: Construction Drawings

IR226

Reference: U.S. Department of Energy, Design Drawings for MP-00211-VL Phase I and MS-00104-VL Utility Lines Remediation

Type: Construction Drawings

IR197

Reference: U.S. Department of Energy Design Drawings for MP-00391-VL Phase I

Type: Construction Drawings

IR194

Reference: U.S. Dept. of Energy Design Drawings for MP-00948-VL and MP-00949-RS

Type: Construction Drawings

IR191

Reference: U.S. Department of Energy Design Drawings for MP-00963-OT Phase I

Type: Construction Drawings

IR189

Reference: U.S. Department of Energy Design Drawings for MP-00964-VL

Type: Construction Drawings

IR326

Reference: U.S. Department of Energy Design Drawings for MP-00990-CS

Type: Construction Drawings

IR227

Reference: U.S. Department of Energy, Design Drawings for MP-01083-MR, MP-00950-VL, MP-00951-VL, and MP-01084-VL

Type: Construction Drawings

IR372

Reference: U.S. Department of Energy, Design Drawings for MP-01077-VL, Phase I and Remedial Action Design Report MR-E-95-05, July 1995

Type: Construction Drawings and Technical Report

IR373

Reference: U.S. Department of Energy, Design Drawings for MP-01102-VL and Remedial Action Design Report MR-R-97-01, January 1997

Type: Construction Drawings and Technical Report

IR452

Letter dated July 6, 1998 from Raymond M. Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Review of Appendix A for Peripheral Property MP-00178-RS (Phase III) (with enclosure)

IR453

Letter dated August 7, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Revisions to Remedial Action Design for Monticello Peripheral Properties, DOE ID Nos. MP-00180-CS and Phase II, and MP-00845-VL

IR463

Letter dated October 16, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Review of Remedial Action Design for Monticello Peripheral properties: DOE ID Nos. MP-00948-VL, Phase II and MP-00949-RS, Phase II

3. Property Status Information

IR627

Letter dated May 19, 1994 from J. Mario Robles, Remedial Project Manager, U. S. Environmental Protection Agency, Region VIII to Donald Leske, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Subject: Letter accepting the Large Area Verification procedure for the Monticello, Utah, vicinity and peripheral properties.

IR327

Reference: MACTEC-ERS. Detail Property Summary: Monticello Peripheral Properties, August 1997

Type: Table

IR333

MACTEC-ERS. August 1997, Detail Property Summary: Monticello Vicinity Properties.

Type: Table.

IR374

Reference: MACTEC-ERS. 1997. Detail Property Summary: Monticello Peripheral Properties, November 1997

Type: Table

IR377

Reference: MACTEC-ERS. November 1997, Detail Property Summary: Monticello Vicinity Properties.

Type: Table.

IR388

Reference: MACTEC-ERS. 1998. Detail Property Summary: Monticello Peripheral Properties, August 22, 1999

Type: Table

IR389

Reference: MACTEC-ERS. 1998. Detail Property Summary: Monticello Vicinity Properties, updated through March 21, 1999.

Type: Submittal with enclosures

IR624

Reference: U. S. Department of Energy. July 1996 to July 2000. Property Completion Reports (PCRs) for each of the following Monticello Mill Tailings Site Operable Unit II Non-Surface and Ground-Water Impacted Peripheral Properties: MP-00105-VL, MP-00178-RS, MP-00180-CS, MP-00198-VL, MP-00211-VL, MP-00845-VL, MP-00886-VL, MP-00887-VL, MP-00888-VL, MP-00947-VL, MP-00948-VL, MP-00949-RS, MP-00950-VL, MP-00963-OT, MP-00964-VL, MP-00988-VL, MP-01040-VL, MP-01041-VL, MP-01042-VL, MP-01083-MR, and MP-01102-VL

Type: Report

IR629

Reference: The United States of America. June 2000. Acting by and through the Secretary of the Interior, acting by and through the Director, National Parks Service ... does hereby release and quitclaim to the City of Monticello... Recorded as document E061691 B788 P0100-0113.

Type: Deed

IR629a

Reference: The United States of America. July 2000. Acting by and through the Secretary of the Interior, acting by and through the Director, National Parks Service ... Amended and corrected legal description for conveyed property quitclaim deed executed on June 20, 2000 and recorded as document E061691 B788 P0100-0113. Correction to Quitclaim Deed recorded as document E062130 B789 P0450-0452.

Type: Deed

IR630

Reference: U. S. Department of Energy. July 2000. *Radiological Characterization Boundaries for Monticello Upland Properties Independent Verification Review*. Prepared by the Oakridge National Laboratory for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR660

Reference: The United States of America represented by the U. S. Department of Energy and Sutherland Bros. Inc. November 2000. Easement and covenant to restrict use of parcel numbers 33S24E324800, 34S24E050000, 34S24E043000 and 34S24E042400. Recorded as document E063343 B793 P0831-0852.

Type: Deed

IR626

Reference: U. S. Department of Energy. January 2001. *Evaluation of the Use of Large Area Verification for the Monticello Remedial Action Project*. Prepared by Y-12 BWXT, L.L.C, Advanced Infrastructure Management Technologies (AIMTech), Western Operations, for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR661

Reference: The United States of America represented by the U. S. Department of Energy and John and Charlotte Johnson. January 2001. Easement and covenant to restrict use of parcel number 34S24E047200. Recorded as document E063255 B793 P0526-0538.

Type: Deed

IR662

Reference: The United States of America represented by the U. S. Department of Energy and Gwen Halls and John and Charlotte Johnson. January 2001. Easement and covenant to restrict use of parcel number 34S24E040000. Recorded as document E063219 B793 P0390-0404.

Type: Deed

IR663

Reference: The United States of America represented by the U. S. Department of Energy and Bryan E, Sherrill, Robert S. and Relva S. Bowring. March 2001. Easement and covenant to restrict use of parcel numbers 33S24E317200 and 33S24E32600. Recorded as document E063926 B796 P0188-0202.

Type: Deed

IR623

Reference: U. S. Department of Energy. April 2001. Memorandum to file for Monticello peripheral property MP-01081-VL documenting the property has no radiological contamination and can be accessed to the public.

Type: Memorandum

IR631

Reference: U. S. Department of Energy. April 2001. *Remedial Action Report for the Monticello Mill Tailings Site National Priorities List Site Operable Unit II Non-Surface and Ground-Water Impacted Peripheral Properties Proposed for Partial Deletion*: MP-00105-VL, MP-00178-RS, MP-00180-CS, MP-00198-VL, MP-00211-VL, MP-00845-VL, MP-00886-VL, MP-00887-VL, MP-00888-VL, MP-00947-VL, MP-00948-VL, MP-00949-RS, MP-00950-VL, MP-00963-OT, MP-00964-VL, MP-00988-VL, MP-01040-VL, MP-01041-VL, MP-01042-VL, MP-01081-VL, MP-01083-MR, and MP-01102-VL (GJO-2000-153-TAR). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR625

Reference: City of Monticello, Utah. April 2003. Amendment to Zoning Regulations, Monticello City Code, Title 10: Chapter 12, OL-1 Overlay Zone. Ordinance Number 2003-2. Creation of Overlay Zone OL-1 to control building in any zone where a U.S. Department of Energy supplemental standard or alternative clean-up level exists. Includes the Monticello City Planning and Zoning Map showing Overlay Zone OL-1. Published in the San Juan Record April 30, 2003 (reference IR637)

Type: Report

IR628

Reference: U. S. Department of Energy. April 2003. *Locational Data Package for the Monticello Mill Tailings Site Operable Unit II Non-Surface and Ground-Water Impacted Peripheral Properties*. Includes Partial Site Deletion Data Collection Form, Version 1.0, March 1996, Prepared by the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report with attachment: Plate 1. "Remedial Action Report Monticello Mill Tailings Site Operable Unit II Non-Surface and Ground-Water Impacted Peripheral Properties Proposed for Partial Deletion."

IR664

Reference: The United States of America represented by the U. S. Department of Energy and Utah Department of Transportation (UDOT). April 2003. Property Deed Annotations notifying of radiologically contaminated materials on the following parcels: A33230367811 (MS-00895-OT) recorded as document E068703 B814 P0533
A33230367202 (MS-00892-OT) recorded as document E068704 B814 P0534
A33230367812 (MS-01021-OT) recorded as document E068705 B814 P0535-0536
A33230369001 (MS-01020-OT) recorded as document E068706 B814 P0537-0538

Type: Deed

IR622

Letter dated July2, 2003 from Mr. Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency, Region VIII to Mr. Art Kleinrath, Program Manager U.S. Department of Energy, Grand Junction Office
Subject: Status of OU II Non-Surface and Ground-Water Impacted Peripheral Properties. Deletion Docket Index attached.

IR632

Reference: U.S. Environmental Protection Agency. August 13, 2003. *Federal Register*, Volume 68, Number 156, Page 48331, Proposed Rules, "Notice of Intent to Partially Delete the Monticello Mill Tailings (USDOE) Superfund Site from the National Priorities List."

Type: Federal Register Publication

IR633

Reference: U.S. Environmental Protection Agency. August 13, 2003. *Federal Register*, Volume 68, Number 156, Page 48314, Rules and Regulations, "Direct Final Notice of Partial Deletion of the Monticello Mill Tailings (USDOE) Superfund Site from the National Priorities List."

Type: Federal Register Publication

IR687

Reference: U.S. Department of Energy. August 2004. *Remedial Action Report for Monticello Mill Tailings (USDOE) Site, National Priorities List Site, Operable Units I and II Surface and Ground Water Impacted Properties (Soil and Sediment Remediation): MP-00179-VL, MP-00181-OT, MP-00391-VL, MS-00893-OT (the former millsite), MP-00951-VL, MP-00990-CS, MG-01026-VL, MG-01027-VL, MG-01029-VL and MG-01030-VL, MG-01033-VL, MP-01077-VL, MP-01084-VL DOE-LM/GJ640-2004. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado.*

Type: Report with attached property owner letters and "Property Certification Summary and Recommendation Summary Evaluation". (Note: Letters and summary are not included for property numbers in **bold** font.)

D. Monticello Mill Tailings Site Operable Unit III (Surface- and Ground-Water)

Documents will be added to the Information Repository for Operable Unit III following completion of the Record of Decision for Operable Unit III. Documents generated before completion of the Record of Decision are located in the Administrative Record file for Operable Unit III.

1. Administrative and Progress Reports**2. Correspondence****3. Project Planning Documents****IR697**

Reference: U.S. Department of Energy. August 2004. *Monticello Mill Tailings Site Operable Unit III Post-Record of Decision Monitoring Plan, Draft Final (DOE-LM/GJ684-2004).* Prepared by Stoller for the U.S. Department of Energy, Office of Legacy Management, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR690 Program Directives

Program Directive No. MSG-04-01, effective date October 1, 2004, from Clay Carpenter, Task Order Manager
Subject: MMTS OU III Post-Rod Biomonitoring Plan for the collection and analysis of sediment and surface water samples for ecological risk from selenium accumulation.

Program Directive No. MSG-04-02, effective date October 4, 2004, from Clay Carpenter, Task Order Manager
Subject: Collect 10 additional sample aliquots for TDS analyses

Program Directive No. MSG-05-01, effective date January 15, 2005, from Clay Carpenter, Task Order Manager
Subject: Wildlife Surveys to determine avian species diversity in three wetland areas and the sedimentation pond at the Monticello Mill Tailings Site. (associated with the *MMTS OU III Post-Rod Monitoring Plan*, Section 6.0, Biomonitoring Plan)

Program Directive No. MSG-05-02, effective date April 4, 2005, from Clay Carpenter, Task Order Manager
Subject: Collect 10 additional sample aliquots for TDS analyses from 5 SW and 5 GW locations

Program Directive No. MSG-05-03, effective date April 4, 2005, from Clay Carpenter, Task Order Manager
Subject: Macroinvertebrate Sampling and Analysis Plan for collecting samples in three wetland areas and the sedimentation pond at the Monticello Mill Tailings Site. (associated with the *MMTS OU III Post-Rod Monitoring Plan* Section 6.0, Biomonitoring Plan)

4. Technical Reports

IR691

Reference: U.S. Department of Energy. September 2004. *Remedial Action Report for the Interim Remedial Action Record of Decision Operable Unit III, Surface Water and Ground Water, Monticello Mill Tailings (USDOE) Site, Monticello, Utah DOE-LM/GJ652-2004*. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado.

Type: Report – EPA CERCLIS Identification Number UT 3890090035

IR692

Reference: U.S. Department of Energy. September 2004. *Interim Remedial Action Report, Monticello Mill Tailings (USDOE) Site, Monticello, Utah*. EPA CERCLIS Identification Number UT 3890090035. *OU III - Surface Water and Ground Water Monitored Natural Attenuation*, DOE-LM/GJ724-2004. Prepared by S.M. Stoller Corp. for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado.

Type: Report

E. Monticello Vicinity Properties

1. Monticello Vicinity Property Remediation

IR1001

Letter dated January 3, 1991, from I.I. Stewart, Project Manager, Chem-Nuclear Geotech, Inc., to H.A. Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc.

Subject: MVP Refusals.

IR1009

Letter dated May 20, 1991, from Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, to Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency Region 45VIII, and Brent Everett, State of Utah, Department of Health, Bureau of Environmental Response and Remediation.

Subject: Proposed Verification Soil Sampling Method for Excavated Areas Exceeding 0.5 Acre.

IR1022

Letter dated May 19, 1994, from J. Mario Robles, Remedial Project Manager, U.S. Environmental Protection Agency Region VIII, to Donald Leske, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office
Subject: Response to Proposed Verification Soil Sampling Method for Excavated Areas Exceeding 0.5 Acre.

IR1016

Memorandum dated February 12, 1992, from Tracy Plessinger, Monticello Project Manager, to R. Kowalewski, DOE-HQ, EM-451.

Subject: Monticello Vicinity Properties Program, Closeout of MS-00046.

IR618

Reference: U. S. Department of Energy. October 1993. *Appendix A, Radiological Assessment for DOE ID No. MS-01021-OT (includes MS-00146-OT, MS-00892-OT and MS-00895-OT)*. Prepared by RUST Geotech Inc. for the U. S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR619

Reference: U. S. Department of Energy. July 1994. *Appendix A, Radiological Assessment for DOE ID No. MS-01020-OT*. Prepared by RUST Geotech Inc. for the U. S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR328

Letter dated September 22, 1995, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Dept. of Energy, Grand Junction Projects Office, to Mr. Paul Mushovic, Remedial Project Manager, U.S. EPA, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.
Subject: Site Assessment Report Addendums for Monticello Vicinity Properties MS-00112-CS and MS-00959-CS.

IR329

Letter dated November 14, 1995, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office, to Mr. Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.

Subject: Sampling and Analysis Plan for Sampling Well at Young's Machine Company (MS-00685-CS).

IR233

Reference: U.S. Department of Energy. June 1995. *Draft Site Assessment Report for Young's Machine Company (MS-00685-CS and MS-00688-CS)*, GJPO-MRAP-21. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado

Type: Report

IR330

Reference: U.S. Department of Energy. July 1995. *Monticello Vicinity Properties Project, Site Assessment Report for Young's Automotive Dealership, M-00111-CS*, GJPO-MRAP-13. Prepared by Rust Geotech Inc. for the U.S. Dept. of Energy, Grand Junction Projects Office, Grand Junction, CO.

Type: Report

IR322

Reference: U.S. Department of Energy. March 1995. *Prompt Alpha-Track Study for Monticello, Utah, Vicinity and Peripheral Properties*, DOE/ID/12584-210, GJPO-RL-4. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR331

Letter dated May 29, 1996, from Mary Ann Rondinella, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Projects Office, to Mr. Paul Mushovic, Remedial Project Manager, Environmental Protection Agency, Region VIII, and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environment Response and Remediation.

Subject: Wetland Mitigation on Monticello Vicinity Properties MS-00891 and MS-00884.

IR213

Reference: U.S. Department of Energy. February 1996. *Sampling and Analysis Plan for Monticello Vicinity Property MS-00111-CS*, P-GJPO-925. Prepared by Rust Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR232

Reference: U.S. Department of Energy. February 1996. *Sampling and Analysis Plan for Young's Machine Company, (MS-00685-CS and MS-00688-CS)*, P-GJPO-923. Prepared by Rust Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR354

Letter dated January 21, 1997, from Joel D. Berwick, Monticello Project Engineer, U.S. Department of Energy Grand Junction Office, to David Bird, State of Utah Department of Environmental Quality, Division of Environmental Response and Restoration.

Subject: UST-Associated Remediation on Vicinity Property MS-00111-CS, Monticello, Utah

IR355

Mountain Environmental, Inc. April 1997. *Underground Storage Tank Closure Plan, State of Utah DEQ, Facility ID No. 5000447, DOE ID No. MS-00111-CS*. Prepared by Mountain Environmental, Inc. for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR356

Mountain Environmental, Inc. April 1997. *Underground Storage Tank Closure Plan, State of Utah DEQ, Facility ID No. 5000450, DOE ID No. MS-00211-CS*. Prepared by Mountain Environmental, Inc. for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR375

Mountain Environmental, Inc. September 1997. *Underground Storage Tank Closure Notice, State of Utah DEQ, Facility ID No. 5000447, DOE ID No. MS-00111-CS*. Prepared by Mountain Environmental, Inc. for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR376

Mountain Environmental, Inc. September 1997. *Underground Storage Tank Closure Notice, State of Utah DEQ, Facility ID No. 5000450, DOE ID No. MS-00211-VL*. Prepared by Mountain Environmental, Inc. for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR357

Meeting/Telephone Conference Record dated July 24, 1997, between Kris Olsen, Permits Specialist, U.S. Fish and Wildlife Service, and Marilyn Kastens, MACTEC-ERS.

Subject: Cliff Swallows at the Bean Plant Property (MS-00051)

IR358

Letter dated July 25, 1997, from Kris Olsen, U.S. Fish and Wildlife Service, to Joel D. Berwick, U.S. Department of Energy Grand Junction Office. Attached is a letter authorizing removal of swallow nests from 533 South Main St. in Monticello, UT.

Subject: Amendment to permit to remove swallow nests

2. Property Status Information

IR1003

Letter dated January 28, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc., to Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Status of Monticello Vicinity Properties included at the signing of the R.O.D.

IR1005

Letter dated March 12, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc., to Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office.

Subject: Summary of Disputed Vicinity Properties in Monticello, Utah, with attached tables and recommendations.

IR1007

Letter dated April 4, 1991, from Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, to Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency Region VIII, and Brent Everett, State of Utah, Department of Health, Bureau of Environmental Response and Remediation.

Subject: Proposal for Including Additional Properties into Monticello Vicinity Property Program, with attached lists.

IR1011

Letter dated June 5, 1991, from Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, to Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency Region VIII, and Brent Everett, State of Utah, Department of Health, Bureau of Environmental Response and Remediation.
Subject: Summary of Disputed Vicinity Properties in Monticello, Utah.

IR1012

Letter dated July 18, 1991, from Harry Perry, SFMP Program Manager, Chem-Nuclear Geotech, Inc., to Joseph Virgona, Monticello Project Manager, U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, CO..
Subject: Submittal to EPA and State of Utah, Monticello Vicinity Properties, Property Exclusions.

IR332

Reference: U.S. Department of Energy. January 1997. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit A*, GJO-96-1-TAR; (GJO-MRAP-28). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR359

Letter dated April 4, 1997, from Joel D. Berwick, Monticello Project Engineer, U.S. DOE Grand Junction Office, to Mr. Mario Robles, Remedial Project Manager, Environmental Protection Agency, Region VIII and Mr. David Bird, State of Utah Department of Environmental Quality, Division of Environmental Response and Remediation.
Subject: Transfer of Properties from the Monticello Vicinity Properties Site to OU II of the Monticello Mill Tailings Site.

IR425

Reference: U.S. Department of Energy. January 1998. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site Operable Unit C*, GJO-97-28-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado

Type: Report

IR440

Reference: OUs A, B, C, D, E, F, G and H Property Completion Reports for Monticello Vicinity Property Remedial Action. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado

Type: Reports

IR457

Letter dated September 28, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: EPA/UDEQ Approval of Completion Reports (with enclosure)

IR458

Letter dated October 2, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Transmittal of Final Remedial Action Report for Operable Unit E of the Monticello Vicinity Properties Site (without enclosure)

IR395

Letter dated September 30, 1998, from Joel D. Berwick, Monticello Project Manager, U.S. Department of Energy Grand Junction Office, to Jerry Cross, U.S. Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Winter Correction Factor for Radon Daughter Concentration Measurements-Monticello, Utah

IR523

Reference: U.S. Department of Energy. June 1999. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit B*, GJO-98-44-TAR; GJO-MRAP-50. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR524

Reference: U.S. Department of Energy. June 1999. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit D*, GJO-98-45-TAR; GJO-MRAP-5. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR525

Reference: U.S. Department of Energy. June 1999. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit F*, GJO-98-46-TAR; GJO-MRAP-52. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR526

Reference: U.S. Department of Energy. June 1999. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit G*, GJO-97-29-TAR; GJO-MRAP-42. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR527

Reference: U.S. Department of Energy. June 1999. *Remedial Action Report for Monticello, Utah, Vicinity Properties National Priorities List Site, Operable Unit H*, GJO-98-78-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR528

Reference: U.S. Department of Energy. August 1999. *Close Out Report for Monticello, Utah, Vicinity Properties National Priority List Site, Operable Units A through H*, GJO-99-110-TAR; (MAC-MVP-10.1). Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.

Type: Report

IR634

Reference: U.S. Environmental Protection Agency. December 1999. *Federal Register*, Volume 64, Number 250, Page 73460, "Proposed Rule". The U.S. Environmental Protection Agency proposes to delete the Monticello Radioactive Contaminated Properties (Site), located in Monticello, Utah from the National Priorities List.

Type: Federal Register Publication (refer to Administrative Record File no. **217** for proposed rule)

IR635

Reference: U.S. Environmental Protection Agency. December 1999. *Federal Register*, Volume 64, Number 250, Page 73423, "Direct Final Rule". U.S. Environmental Protection Agency (EPA) Region 8, announces the deletion of the Monticello Radioactive Contaminated Properties (Site), located in Monticello, Utah from the National Priorities List."

Type: Federal Register Publication (refer to Administrative Record File no. **217a** for final rule)

IR537

Reference: U.S. Department of Energy. January 2000. *CERCLA Covenant Deferral for Transfer of Federal Property in Monticello, Utah*, GJO-2000-140-TAR. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Oversized document shelf

IR539

Letter dated January 13, 2000 from Ray Plienness, Monticello Project Coordinator, U.S. Department of Energy, Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality

Subject: Comment Responses to Covenant Deferral Request-Monticello, Utah

IR552

Letter dated June 8, 2000 from Raymond Plienness, Monticello Project Coordinator, U.S. Department of Energy Grand Junction Office to Paul Mushovic, Remedial Project Manager, EPA, Region VIII and to David Bird, Monticello Project Manager, State of Utah, Division of Environmental Response and Remediation

Subject: Submittal of Property Completion Reports for Monticello Mill Tailings Site Non Ground Water Related Peripheral Properties in Operable Unit II.

IR598

22 Certification letters dated April 17, 2001 from Raymond M. Plieness, Monticello Certification Official, U.S. Department of Energy Grand Junction Office, to the affected Monticello property owners

Subject: Certification that residual radioactive materials, identified on the subject property were removed to protective levels specified in the MMTS Record of Decision.

Attachments: 5-page index listing properties and owners.

IV. PUBLIC PARTICIPATION/PUBLIC INFORMATION

A. Technical Assistance Grants

IR018

Reference: U.S. Environmental Protection Agency. 1988. Superfund Technical Assistance Grants.

Type: Brochure

B. Responsiveness Summary for the Record of Decision

IR015

Reference: U.S. Department of Energy. 1989. Monticello Mill Tailings Site, Responsiveness Summary. Prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: File no. **215**, Monticello Mill Tailings Site Administrative Record (Record of Decision, Appendix A).

C. Community Relations Plans

IR1004

Letter dated February 3, 1991, from Paul Mushovic, Remedial Project Manager, U.S. Environmental Protection Agency Region VIII, to Joseph Virgona, Monticello Project Manager, U.S. Department of Energy Grand Junction Projects Office. Subject: EPA and State Comments on the Monticello Mill Tailings Site Community Relations Plan Update.

IR003

Reference: U.S. Department of Energy. 1991. *Monticello Mill Tailings Superfund Site, Monticello, Utah Community Relations Plan Update*. Prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **539**

IR180

Reference: U.S. Department of Energy. September 1994. *Monticello Mill Tailings Superfund Site, Monticello, Utah, Interim Community Relations Plan Update*, P-GJPO-1225. Prepared by Rust Geotech Inc. for the U.S. Dept. of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR218

Reference: U.S. Department of Energy. 1995. *Monticello Mill Tailings Superfund Site, Monticello Vicinity Properties Superfund Site, Monticello Utah, Community Relations Plan Update*, DOE/ID/12584-182, P-GJPO-1223. Prepared by Rust Geotech Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

Location: Operable Unit III Administrative Record File no. **542**

IR378

Reference: U.S. Department of Energy. September 1998. *Monticello Mill Tailings Superfund Site, Monticello Vicinity Properties Superfund Site, Monticello Utah, Community Relations Plan, Update 1998-1999*, MAC-MRAP 1.9.1.

Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.

Type: Report

IR429

Reference: Response to State of Utah, EPA and DOE Comments on the 1998 Draft Community Relations Update for the Monticello Mill tailings Site and Monticello Vicinity Properties Site dated February 1998 and June 23, 1998.

Type: Subcontractor Document

IR473

Letter dated November 18, 1998 from Joel Berwick, Monticello Project Manager, U.S. Department of Energy, Grand Junction Office to Paul Mushovic, Environmental Protection Agency, Region VIII, and David Bird, State of Utah Department of Environmental Quality
Subject: Revised Schedule for Supplemental Standards Community Relations Activities (with enclosure)

IR571

Reference: U.S. Department of Energy. March 2001. *Monticello Mill Tailings Superfund Site and Monticello Vicinity Properties Superfund Site, Community Relations Plan Update FY 2001*, GJO-2001-188-TAR (MAC-MRAP 1.9.1).
Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Report

D. Correspondence

Between the U.S. Department of Energy and the City of Blanding, Utah

IR261

Letter dated May 24, 1995, from Mary Ann Rondinella, U.S. Department of Energy to Dale Slade, 332 W. 400 South (64-5), Blanding, Utah;
Subject: Response to Concerns at May 16, 1995 Site Specific Advisory Board Meeting
Between the U.S. Department of Energy and the City of Monticello, UT

IR597

Letter dated January 29, 2002 from Joel Berwick, U. S. Department of Energy to Trent Schafer, Manager, City of Monticello, P.O. Box 457, Monticello, UT 84535-0457
Subject: Request to place restrictions preventing residential development on property MP-00211.

E. Fact Sheets and Key Contacts**IR024**

Reference: U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Fall 1987. Public Involvement in the Superfund Program.
Type: Fact Sheet

IR006

Reference: U.S. Department of Energy, 1991. Environmental Restoration Priority System.
Type: Fact Sheet

IR007

Reference: U.S. Department of Energy, 1991. Waste Management Operations Priority System.
Type: Fact Sheet

IR079

Reference: U.S. Department of Energy, [no date]. Monticello Cleanup Projects, Site Specific Advisory Board.
Type: Fact Sheet

IR275

Reference: U.S. Department of Energy. 1995. Explanation of Significant Difference, U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado.
Type: Fact Sheet (copy also exists in File no. **216**, Monticello Mill Tailings Site Administrative Record).

IR221a

Reference: U.S. Department of Energy, August 1995. Potential Health Hazards of Radiation.
Type: Fact Sheet

IR221b

Reference: U.S. Department of Energy, August 1995. Monticello Vicinity Properties Project Site Boundary Program.
Type: Fact Sheet

IR334

Reference: U.S. Department of Energy, August 1995. Operable Unit I, Monticello Millsite; Operable Unit II, Peripheral Properties.

Type: Fact Sheet

IR221c

Reference: U.S. Department of Energy, November 1995. Monticello Remedial Action Project Vicinity Property Cleanup Process.

Type: Fact Sheet

IR221d

Reference: U.S. Department of Energy, December 1995. Monticello Mill Tailings Site Repository Design.

Type: Fact Sheets

IR237

Reference: U.S. Department of Energy Grand Junction Projects Office, June 1996. Monticello Surface-and Ground-Water Remedial Action Project.

Type: Fact Sheet

IR335

Reference: U.S. Department of Energy Grand Junction Projects Office, September 1996. Risks Related to Air Quality.

Type: Fact Sheet

IR360

Reference: U.S. Department of Energy Grand Junction Office, January 1997. Monticello Wetlands.

Type: Fact Sheet

IR361

Reference: U.S. Department of Energy Grand Junction Office, April 1997. Monticello Millsite Remediation.

Type: Fact Sheet

IR390

Reference: U.S. Department of Energy Grand Junction Office, December 1997. Monticello Surface and Ground Water Findings and Activities.

Type: Fact Sheet

IR391

Reference: U.S. Department of Energy Grand Junction Office, March 1998. Monticello Millsite Operable Unit III Surface and Groundwater, Soils and Sediments Baseline Risk Assessment.

Type: Fact Sheet

IR392

Reference: U.S. Department of Energy Grand Junction Office, March 1998. Monticello Millsite Operable Unit III Alternatives Analysis of Soil and Sediment.

Type: Fact Sheet

IR475

Reference: December 1998 update to the List of Key Contacts -- States of Colorado and Utah

Type: Key Contacts

IR336

Reference: List of Key Contacts -- States of Colorado and Utah, October 2000

Type: Key Contacts

IR559

Reference: List of Key Contacts -- States of Colorado and Utah, November 2000 to December 2001

Type: Key Contacts

IR492

Reference: U.S. Department of Energy Grand Junction Office, February 1999. Explanation of Significant Differences

Type: Fact Sheet

IR649

Reference: U.S. Department of Energy Grand Junction Office. July 2001. *Restoration of the Monticello Millsite*, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Type: Fact Sheet

IR589

Reference: Updates to the Colorado, Utah, and Moab Key Contacts List, October 2001
Type: Key Contacts

IR590

Reference: Updates to the Colorado, Utah, and Moab Key Contacts List, January 2002
Type: Key Contacts

IR591

Reference: Updates to the Colorado, Utah, and Moab Key Contacts List, February/March 2002
Type: Key Contacts

IR592

Reference: Updates to the Colorado, Utah, and Moab Key Contacts List, April/May 2002
Type: Key Contacts

IR605

Reference: U.S. Department of Energy Grand Junction Office, July 2002. Monticello, Utah, Superfund Project Begins Long-Term Surveillance and Maintenance of Established Remedies
Type: Fact Sheet

IR611

Reference: Updates to the Monticello Key Contacts General List, January 27, 2003
Type: Key Contacts (newly formatted database derived printout)

IR655

Reference: Updates to the Monticello Key Contacts General List, date printed August 13, 2003.
Type: Key Contacts

IR656

Reference: U.S. Department of Energy Grand Junction Office, July 2003. Partial Deletion of Monticello Mill Tailings Site from the National Priorities List.
Type: Fact Sheet

IR670

Reference: Updates to the Monticello Key Contacts General List, date printed November 24, 2003.
Type: Key Contacts

IR675

Reference: Updates to the Monticello Key Contacts General List, date printed January 26, 2004.
Type: Key Contacts

IR679

Reference: Updates to the Monticello Key Contacts General List, date printed April 8, 2004.
Type: Key Contacts

IR684

Reference: U.S. Department of Energy Grand Junction Office, February 1999. Monticello, Utah, Proposal for Supplemental Standards at the Monticello National Priorities List Sites
Type: Fact Sheet

IR685

Reference: Updates to the Monticello Key Contacts General List, date printed July 19, 2004.
Type: Key Contacts

IR698

Reference: Updates to the Monticello Key Contacts General List, date printed January 12, 2005
Type: Key Contacts

IR709

Reference: U.S. Department of Energy - Office of Legacy Management, July 2004. *Public Outreach*
Type: Fact Sheet

IR710

Reference: Updates to the Monticello Key Contacts General List, date printed July 12, 2005.
Type: Key Contacts

F. Public Meetings**IR182**

Reference: Monticello Remedial Action Project, November 16, 1989, Public Hearing Transcript, Monticello, Utah.
Type: Report

IR062

Reference: U.S. Department of Energy, February 1993. Meeting Summary, Environmental Restoration and Waste Management Five-Year Plan and Site Specific Plan for the U.S. Department of Energy, Grand Junction Projects Office, February 17, 1993 in Grand Junction, Colorado, and February 25, 1993 in Monticello, Utah.
Type: Report

IR088

Reference: U.S. Department of Energy Grand Junction Projects Office, 1993. Transcript from August 4, 1993, Public Meeting on Mill Tailings Disposal Alternatives, Monticello Utah.
Type: Transcript

IR089

Reference: U.S. Department of Energy-Grand Junction Projects Office, 1993. Summary of Citizen Comments and Concerns: Public Information Meetings on Mill Tailings Disposal Alternatives on August 4, 1993 in Monticello, UT & on August 5, 1993 in Blanding, UT.
Type: Report

IR090

Reference: U.S. Department of Energy Grand Junction Projects Office, 1993. Transcript from August 5, 1993, Public Information Meeting on Mill Tailings Disposal Alternatives in Blanding, Utah.
Type: Transcript

IR091

Reference: U.S. Department of Energy, 1993. Transcripts from October 5, 1993, Public Meeting in Monticello, Utah and October 6, 1993 Public Meeting in Blanding, Utah.
Type: Transcript

IR092

Reference: U.S. Department of Energy, 1993. Summary of Citizen Comments and Concerns: Public Information Meetings on October 5, 1993 in Monticello, Utah and October 6, 1993 in Blanding, Utah.
Type: Report

IR099

Reference: Leske, Donald N. 1993. Overheads for Monticello Remedial Action Projects Public Meetings, October 5, 1993 in Monticello, Utah, and October 6, 1993 in Blanding, Utah.
Type: Report

IR100

Reference: U.S. Department of Energy Grand Junction Projects Office, 1993. Sign-in sheet from October 5, 1993 Public Information Meeting, Monticello, Utah.
Type: Report

IR101

Reference: U.S. Department of Energy Grand Junction Projects Office, 1993. Sign-in sheet from October 6, 1993 Public Information Meeting, Blanding, Utah.

Type: Report

IR133

Reference: U.S. Department of Energy Grand Junction Projects Office, 1994. Sign-in sheet from January 11, 1994 Public Information Meeting, Monticello, Utah.

Type: Report

IR134

Reference: U.S. Department of Energy, 1994. Summary of Citizen Comments and Concerns: Public Participation Meeting discussing on-site disposal option, January 11, 1994, Monticello Utah.

Type: Report

IR135

Reference: U.S. Department of Energy, 1994. Transcript from January 11, 1994, Public Participation Meeting, Monticello, Utah.

Type: Transcript

IR137

Reference: U.S. Department of Energy, Grand Junction Projects Office, Public Information Meeting Sign-up Sheet, January 12, 1994, Blanding Utah.

Type: Report

IR138

Reference: U.S. Department of Energy, 1994. Comments from Public Participation Meeting, January 12, 1994 in Blanding, Utah (Meeting Evaluation Sheets).

Type: Report

IR139

Reference: U.S. Department of Energy, 1994. Summary of Citizen Comments and Concerns: Public Participation Meeting discussing on-site disposal option, January 12, 1994, Blanding, Utah.

Type: Report

IR140

Reference: U.S. Department of Energy, 1994. Transcript from January 12, 1994, Public Participation Meeting, Blanding, Utah.

Type: Transcript

IR172

Reference: U.S. Department of Energy, 1994. Summary of Citizen Comments and Concerns: Public Information Meeting, August 30, 1994, Monticello, Utah.

Type: Report

IR173

Reference: U.S. Department of Energy, 1994. Summary of Citizen Comments and Concerns: Public Information Meeting, August 31, 1994, Blanding, Utah.

Type: Report

G. Press Releases/Program Updates and Newspaper Articles**IR005**

Reference: San Juan Record, Wednesday, March 13, 1991. Monticello Uranium Cleanup.

Type: Newspaper Article

IR027

Reference: U.S. Department of Energy, September 9, 1990 [sic]. U.S. Department of Energy Site-Specific Plan Available for the State of Utah.

Type: Press Release (correct date is actually September 9, 1991)

IR028

Reference: San Juan Record, Wednesday, September 11, 1991. Notice of Availability and Public Opportunity to Comment.

Type: Newspaper Article

IR029

Reference: San Juan Record, Wednesday, September 18, 1991. DOE Site-specific Utah Plan Available.

Type: Newspaper Article

IR030

Reference: San Juan Record, Wednesday, October 16, 1991. Notice of Availability and Public Opportunity to Comment.

Type: Newspaper Article

IR031

Reference: San Juan Record, Wednesday, October 23, 1991. DOE will purchase land south of Monticello.

Type: Newspaper Article

IR035

Reference: San Juan Record, Wednesday, February 26, 1992. Chem-Nuclear Geotech, Inc., prime contractor to the U.S. Department of Energy, seeking general contractors interested in performing mill tailings remedial action in Monticello, Utah.

Type: Newspaper Employment Advertisement

IR034

Reference: U.S. Department of Energy, March 2, 1992. U.S. Department of Energy Conducting Environmental Management Survey. (Also contains a survey package).

Type: Press Release

IR042

Reference: San Juan Record, March 18, 1992. DOE Survey.

Type: Newspaper Article

IR040

Reference: U. S. Department of Energy, May 1, 1992. Monticello Superfund Sites Information Moved to New Location.

Type: Press Release

IR041

Reference: San Juan Record, Wednesday, May 13, 1992. Superfund Sites Information Moved.

Type: Newspaper Article

IR039

Reference: U. S. Department of Energy, Grand Junction Projects Office Roundup, a Monthly Site Newsletter, May 19, 1992. "Geotech Donates Money for Ambulance Garage".

Type: Newsletter Article

IR244

Reference: Newspaper Articles from July 1, 1992 to September 30, 1992

Type: Newspaper Articles

IR245

Reference: Newspaper Articles and Press Releases from October 1, 1992 to December 31, 1992

Type: Newspaper Articles

IR051

Reference: Chem-Nuclear Geotech, Inc., October 15, 1992. Access Allowed on Proposed Site of Monticello Repository.

Type: Administrative Bulletin

IR181

Reference: U.S. Department of Energy, [no date]. Public Meetings on Monticello Cleanup Projects.

Type: Advertising Flyer

IR246

Reference: Newspaper Articles and Press Releases from January 1, 1993 to March 31, 1993
Type: Newspaper Articles

IR247

Reference: Newspaper Articles and Press Releases from April 1, 1993 to June 30, 1993
Type: Newspaper Articles

IR068

Reference: RUST Geotech, Inc., Administrative Bulletin, May 28, 1993. Unauthorized Collection of Archaeological Materials Prohibited.
Type: Administrative Bulletin

IR248

Reference: Newspaper Articles and Press Releases from July 1, 1993 to September 30, 1993
Type: Newspaper Articles

IR249

Reference: Newspaper Articles and Press Releases from October 1, 1993 to December 31, 1993
Type: Newspaper Articles

IR250

Reference: Newspaper Articles and Press Releases from January 1, 1994 to March 31, 1994
Type: Newspaper Articles

IR136

Reference: KUTA Radio January 11, 1994. Interview Between Donald N. Leske, DOE Project Manager and Phil Mueller, KUTA Manager.
Type: Report

IR141

Reference: KUTA Radio, January 13, 1994. Interview between Donald N. Leske, DOE Project Manager and Phil Mueller, KUTA Manager.
Type: Report

IR251

Reference: Newspaper Articles and Press Releases from April 1, 1994 to June 30, 1994
Type: Newspaper Articles

IR252

Reference: Newspaper Articles and Press Releases from July 1, 1994 to September 30, 1994
Type: Newspaper Articles

IR183

Reference: Newspaper Articles and Press Releases from October 1, 1994 to December 31, 1994.
Type: Newspaper Articles

IR188

Reference: Newspaper Articles and Press Releases from January 1, 1995 to March 31, 1995 and from April 1, 1995 to June 30, 1995.
Type: Newspaper Articles

IR208

Reference: Newspaper Articles and Press Releases from July 1, 1995 to September 30, 1995.
Type: Newspaper Articles

IR219

Reference: Newspaper Articles and Press Releases from October 1, 1995 to December 31, 1995.
Type: Newspaper Articles

IR220

Reference: Newspaper Articles and Press Releases from January 1, 1996 to March 31, 1996.
Type: Newspaper Articles

IR236

Reference: U.S. Department of Energy, [no date]. Public Information Repository for Monticello Cleanup Projects Has Moved to Monticello City Office.
Type: Press Release

IR239

Reference: Newspaper Articles and Press Releases from April 1, 1996 to June 30, 1996.
Type: Newspaper Articles

IR253

Reference: DOE Press Releases from September 6, 1995
Subject: DOE Issues Finding of No Significant Impact for Uranium Lease Management Program.
Type: Newspaper Articles

IR276

Reference: Newspaper Articles and Press Releases from July 1, 1996 to September 30, 1996.
Type: Newspaper Articles

IR277

Reference: Newspaper Articles and Press Releases from October 1, 1996 to December 31, 1996.
Type: Newspaper Articles

IR337

Reference: Newspaper Articles and Press Releases from January 1, 1997 to March 31, 1997.
Type: Newspaper Articles

IR362

Reference: Newspaper Articles and Press Releases from April 1, 1997 to June 30, 1997.
Type: Newspaper Articles

IR379

Reference: Newspaper Articles and Press Releases from July 1, 1997 to September 30, 1997.
Type: Newspaper Articles

IR380

Reference: Newspaper Articles and Press Releases from October 1, 1997 to December 31, 1997.
Type: Newspaper Articles

IR387

Reference: Newspaper Articles and Press Releases from January 1, 1998 to March 31, 1998.
Type: Newspaper Articles

IR394

Reference: Newspaper Articles and Press Release from April 1, 1998 to September 30, 1998
Type: Newspaper Article

IR479

Reference: Newspaper Articles and Press Release from October 1, 1998 to December 31, 1998.
Type: Newspaper Article

IR480

Reference: Newspaper Articles and Press Release from January 1, 1999 to March 31, 1999.
Type: Newspaper Article

IR496

Reference: Newspaper Articles and Press Releases from April 1, 1999 to July 31, 1999
Type: Newspaper Articles

IR509

Reference: Newspaper Articles and Press Releases from August 1, 1999 to November 31, 1999
Type: Newspaper Articles

IR530

Reference: Newspaper Articles and Press Releases from December 31, 1999 to February 10, 2000
Type: Newspaper Articles

IR541

Reference: Newspaper Articles and Press Releases from February 11, 2000 through June 30, 2000
Type: Newspaper Articles

IR450

Reference: Newspaper Articles and Press Releases from July 1, 2000 through December 31, 2000
Type: Newspaper Articles

IR562

Reference: Newspaper Articles and Press Release from November 1, 2000 to December 31, 2001
Type: Newspaper Article

IR567

Reference: U.S. Department of Energy. Winter/Spring 2001. *Grand Junction Office Perspective*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: 3rd Annual Long-Term Stewardship Workshop
Type: Report

IR586

Reference: U.S. Department of Energy. December 2001. *Grand Junction Office Perspective*. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Long-Awaited Site Transition Finalized
Type: Report

IR599

Reference: U.S. Department of Energy. July 2002. *Grand Junction Office Perspective*, Vol. 10. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Monticello, Utah, Project Transfers to LTSM Program
Type: Article22

IR600

Reference: Newspaper Articles and Press Releases from April 17, 2002 to July 3, 2002
Subject: (1) 5-Year Review Announcement (SJR/BMP), (2) 5-Year Review solicitation for comments (SJR/BMP), (3) Monticello's new golf course (SJR), (4) Radiation Exposure Compensation Act and Downwinders legislation town meeting (SJR)
Type: Newspaper Articles (San Juan Record (SJR), Monticello, UT and Blue Mountain Panorama (BMP), Blanding, UT)

IR602

Reference: U.S. Department of Energy. October 1997. *Grand Junction Office Perspective*, Vol.1. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: DOE Begins Final Stage of Cleanup in Monticello; Investigating Surface Water, Ground Water, Soil and Sediment; Monticello Site Specific Advisory Board Critical to Project Success
Type: Article

IR603

Reference: U.S. Department of Energy. July 1998. *Grand Junction Office Perspective*, Vol. 3. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Permeable Reactive Barriers – A Viable Option to Clean Up Contaminated Groundwater
Type: Article

IR604

Reference: U.S. Department of Energy. Winter 2000. *Grand Junction Office Perspective*, Vol. 6. Prepared by MACTEC-ERS for the U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado.
Subject: Monticello – A Look at This Unique Cleanup Project; Monticello Vicinity Properties Site To Be Delisted; Interim Remedial Action Implemented for Monticello Operable Unit III.
Type: Article

IR637

Reference: Newspaper Articles and Press Releases from January 2003 to December 2003
(1) San Juan Record, Wednesday, April 30, 2003. Public Notice. City of Monticello Ordinance No. 2003-2. "Amendment to Zoning Regulations".
(2) (3) San Juan Record (pg 2) and Blue Mountain Panorama (pg 9), August 13, 2003. Public Notices "USEPA announces the publication of the Notice of Intent to Partially Delete and the Direct Final Notice of Partial Deletion of the Monticello Mill Tailings (USDOE) Site located in Monticello, Utah, from the National Priorities List.
(4) San Juan Record, August 13, 2003. pg 2: "Monticello Millsite to be partially delisted from national priorities list.
(5) Salt Lake Tribune, August 20, 2003. Article pg B5: "EPA seeks comment on winding up tailings cleanup.
Type: Newspaper Article

IR699

Reference: Newspaper Articles and Press Releases from January 2004 to December 2004
(1) Salt Lake Tribune, Salt Lake City, Utah. Wednesday, December 1, 2004. Article by Robert Gehrke "Feds Say Monticello Neglecting Mill Tailings"
(2) San Juan Record, Monticello Utah. Wednesday, December 8, 2004. Article pg 1: "DOE expresses concern over Monticello Millsite Restoration".
(3) The Times-Independent, Moab, Utah Thursday December 16, 2004. Article pg. 7B: "Tailings Restoration Questioned".
(4) San Juan Record, December 16, 2004. Letter to the Editor (Wallace Brice) pg 1B: "Salt Lake Tribune Story was false"
Type: Newspaper Articles

IR700

Reference: Newspaper Articles and Press Releases from January 2005 to December 2005
(1) San Juan Record Wednesday January 5, 2005. Article pg 2: Dust in the Winds by Bill Boyle, "A look back: 2004 in reviews, Monticello."
(2) San Juan Record, Wednesday March 2, 2005. City Council meeting highlights pg 5: "Monticello to document mill health issues".
(3) San Juan Record, Wednesday March 16, 2005. City Council meeting highlights, pg 1: "Monticello considering two options for visitors center".
(4) San Juan Record, Wednesday March 23, 2005, City Council meeting highlights, pg 1: "Senator Orrin Hatch tours Monticello uranium millsite".
(5) San Juan Record, Wednesday March 30, 2005, City Council meeting highlights, pg 3: "Monticello City pursuing compensation for residents exposed to millsite, mining radiation".
Type: Newspaper Articles

IR711

Reference: U.S. Department of Energy, February 6, 2003, *Department of Energy Announces a New Office of Legacy Management*. Includes attachments: "What is Legacy Management", "Mission and Functions Statement", and "Office of Legacy Management – Organizational Chart"
Type: Press Release

IR712

Reference: Office of Legacy Management, U.S. Department of Energy, January – March 2005. Article titled "Property Management and Community Assistance"
Type: Program Update

H. Site Specific Advisory Board

IR1019

Letter dated December 22, 1993, from Donald N. Leske, U.S. Department of Energy, Grand Junction Projects Office, to Ms. Maryleen Tahy.

Subject: Minutes from the November 29, 1993, Meeting of the Monticello Site Specific Advisory Board and the Draft Charter.

IR131

Reference: Minutes of the Site Specific Advisory Board Meeting, November 29, 1993.

Type: Report

IR132

Reference: Site Specific Advisory Board, November 29, 1993. Charter of the Site Specific Advisory Board for Monticello Remedial Action Project and Monticello Vicinity Properties Project.

Type: Report

IR114

Memorandum dated December 2, 1993 from Melissa Graham-Morris, Rust Geotech, to Karen S. Scotti, Rust Geotech.

Subject: Site-Specific Advisory Board Organizational Meeting Trip Report

IR174

Reference: Minutes of the Site Specific Advisory Board Meeting, February 22, 1994, Blanding, UT.

Type: Report

IR1020

Letter dated March 4, 1994, from Donald N. Leske, U.S. Department of Energy Grand Junction Projects Office, to the Site Specific Advisory Board.

Subject: Transmittal of the February 22, 1994 Site Specific Advisory Board Meeting Notes.

IR175

Reference: Minutes of the Site Specific Advisory Board Meeting, March 22, 1994, Monticello Utah.

Type: Report

IR176

Reference: Minutes of the Site Specific Advisory Board Meeting, April 26, 1994, Blanding, Utah.

Type: Report

IR177

Reference: Minutes of the Site Specific Advisory Board Meeting, July 26, 1994, Monticello Utah.

Type: Report

IR178

Reference: Minutes of the Site Specific Advisory Board Meeting, August 16, 1994, Blanding Utah.

Type: Report

IR293

Reference: Announcement for Special Site-Specific Advisory Board Meeting on August 30, 1994.

Type: Memorandum

IR291

Reference: Minutes of the Special Site-Specific Advisory Board Meeting, August 30, 1994.

Type: Report

IR292

Memorandum dated September 22, 1994, from Rita Walker, Secretary, Site Specific Advisory Board to Site Specific Advisory Board Members.

Subject: Notice to cancel September 27, 1994 meeting.

IR279

Reference: Minutes of the Special Site-Specific Advisory Board Meeting, October 10, 1994.
Type: Report

IR280

Reference: Minutes of the Special Site-Specific Advisory Board Meeting, October 12, 1994.
Type: Report

IR281

Reference: Minutes of the Site-Specific Advisory Board Meeting, October 18, 1994.
Type: Report

IR282

Reference: Minutes of the Site-Specific Advisory Board Meeting, February 21, 1995.
Type: Report

IR283

Reference: Minutes of the Site-Specific Advisory Board Meeting, March 21, 1995.
Type: Report

IR284

Reference: Minutes of the Site-Specific Advisory Board Meeting, April 18, 1995.
Type: Report

IR285

Reference: Minutes of the Site-Specific Advisory Board Meeting, May 16, 1995.
Type: Report

IR212a

Reference: Minutes of the Site-Specific Advisory Board Meeting, June 20, 1995.
Type: Report

IR212b

Reference: Minutes of the Site-Specific Advisory Board Meeting, July 18, 1995.
Type: Report

IR212c

Reference: Minutes of the Site-Specific Advisory Board Meeting, August 21, 1995.
Type: Report

IR212d

Reference: Minutes of the Site-Specific Advisory Board Meeting, September 19, 1995.
Type: Report

IR223a

Reference: Minutes of the Site-Specific Advisory Board Meeting, October 17, 1995.
Type: Report

IR223b

Reference: Minutes of the Site-Specific Advisory Board Meeting, January 16, 1996.
Type: Report

IR243

Reference: Minutes of the Site-Specific Advisory Board Meeting, April 16, 1996.
Type: Report

IR287

Reference: Minutes of the Site-Specific Advisory Board Meeting, June 18, 1996.
Type: Report

IR288

Reference: Minutes of the Site-Specific Advisory Board Meeting, August 20, 1996.
Type: Report

IR290

Reference: Minutes of the Site-Specific Advisory Board Meeting, October 15, 1996.
Type: Report

IR294

Reference: Minutes of the Site-Specific Advisory Board Meeting, December 17, 1996 and January 31, 1997.
Type: Report

IR339

Memorandum dated February 13, 1997, from Dale Slade, Site Specific Advisory Board, to SSAB members.
Subject: No formal agenda for February 18, 1997 SSAB meeting.

IR342

Reference: Minutes of the Site-Specific Advisory Board Meeting, February 18, 1997.
Type: Report

IR343

Reference: Minutes of the Site-Specific Advisory Board Meeting, March 18, 1997.
Type: Report

IR347

Reference: Minutes of the Site-Specific Advisory Board Meeting, June 17, 1997.
Type: Report

IR381

Reference: Minutes of the Site-Specific Advisory Board Meeting, August 12, 1997.
Type: Report

IR382

Reference: Minutes of the Site-Specific Advisory Board Meeting, October 21, 1997.
Type: Report

IR385

Reference: Minutes of the Site-Specific Advisory Board Meeting, December 10, 1997.
Type: Report

IR383

Reference: Monticello Citizens' Complaint Log, May 4, 1997 to November 11, 1997
Type: Table

IR386

Reference: Minutes of the Site-Specific Advisory Board Meeting, February 18, 1998.
Type: Report

IR488

Reference: Teleconference Minutes of the Site-Specific Advisory Board Meeting, March 27, 1998.
Type: Report

IR421

Reference: Minutes of the Site-Specific Advisory Board Meeting, April 15, 1998.
Type: Report

IR433

Reference: Minutes of the Site-Specific Advisory Board Meeting, June 16, 1998.
Type: Report

IR441

Reference: Minutes of the Site-Specific Advisory Board Meeting, August 19, 1998.
Type: Report

IR482

Reference: Minutes of the Site-Specific Advisory Board Meeting, October 21, 1998.
Type: Report

IR442

Reference: Monticello Citizens Complaint Log, November 12, 1997 to October 1, 1998
Type: Table

IR487

Reference: Site-Specific Advisory Board Status Update, December 1998.
Type: Report

IR494

Reference: Minutes of the Site-Specific Advisory Board Meeting, February 17, 1999.
Type: Report

IR505

Reference: Minutes of the Site-Specific Advisory Board Meeting, April 21, 1999.
Type: Report

IR518

Reference: Minutes of the Site-Specific Advisory Board Meeting, June 16, 1999
Type: Report